Cement and Concrete Workers' Contractors' Pavers' and Asphalt Tools

JOHN STORTZ & SON

MANUFACTURERS

Philadelphia, Pa., U. S. A.

WALTHER PRINTING HOUSE
THIRD STREET AND GIRARD AVENUE
PHILADELPHIA

Cement and Concrete Workers' Contractors' Pavers' and Asphalt Tools

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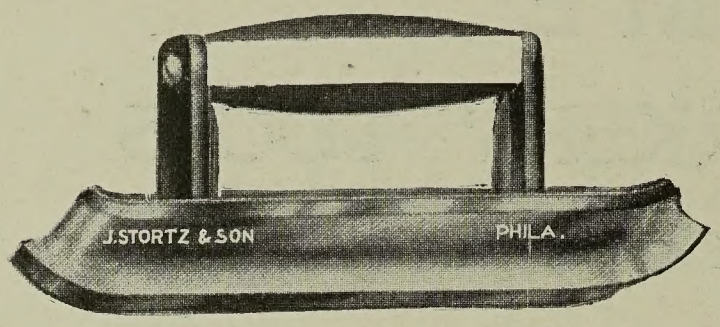
ACME JOINTER, BOTH ENDS CURVED



Makes a medium-sized joint especially designed for pavement work.

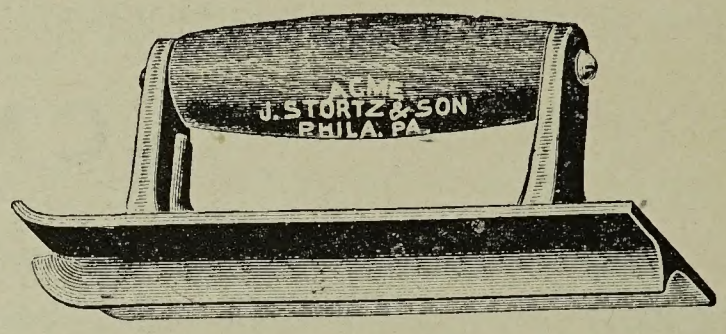
6½ in. x 3 in.

No. 201.—Bronze, polished ..... price, $1 40
202.—Iron, nickel-plated ..... " 58

ACME JOINTER, STRAIGHT END

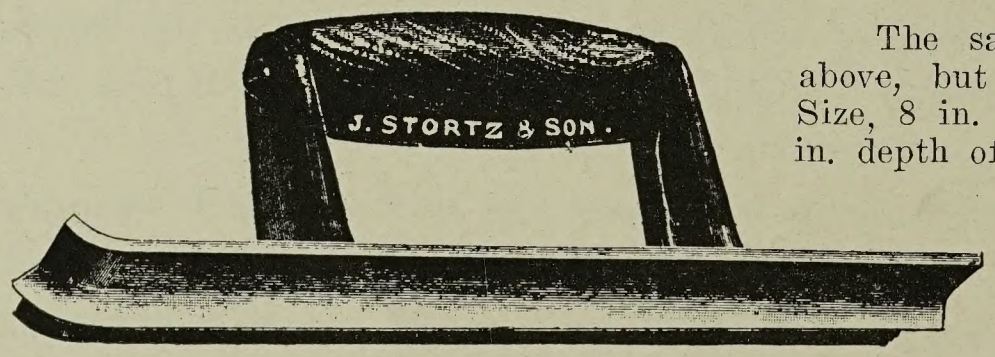
Makes a medium-sized joint, can be used in corners or for any purpose where a joint is required; especially designed for pavement work.

Cut ½ in. deep, ¼ in. wide.



No. 203.—Bronze, polished, 6 in. x 3 in. ..... price, $1 40
204.—Iron, nickel-plated, 6 in. x 3 in. ..... " 65
199.—Bronze, polished, 9 in. x 3 in. ..... " 1 70
200.—Iron, nickel-plated, 9 in. x 3 in. ..... " 80

ACME STRAIGHT END JOINTER, NARROW PATTERN



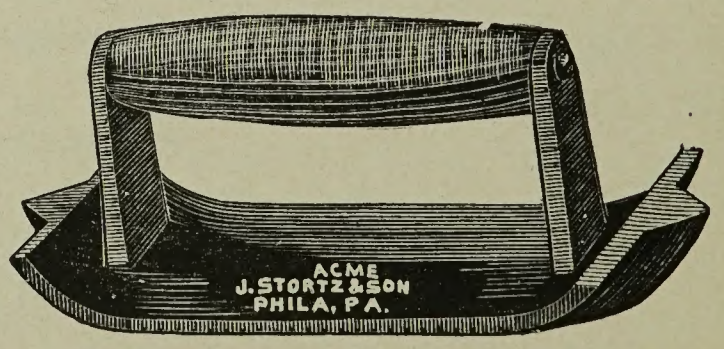
The same general design as above, but longer and narrower. Size, 8 in. long, 1¾ in. wide, ½ in. depth of cut.

No. 217.—Bronze, polished ..... price, $1 40
218.—Iron, nickel-plated ..... " 65

ACME DRIVEWAY GROOVER

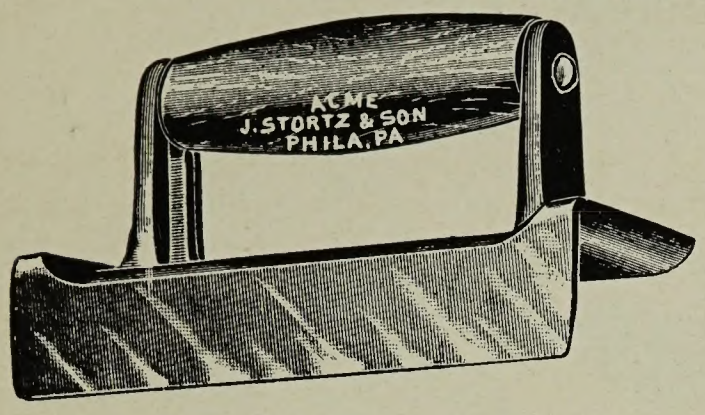
They are used to make the joints or grooves in walks, driveways or where wide grooves are desired.

Cut ½ in. deep, ⅝ in. wide.



No. 205.—Bronze, polished, 6¼ in. x 2½ in. ..... price, $1 40
206.—Iron, nickel-plated, 6¼ in. x 2½ in. ..... " 65
235.—Bronze, polished, 9 in. x 3 in. ..... " 1 70
236.—Iron, nickel-plated, 9 in. x 3 in. ..... " 80

ACME SQUARE EDGER



This tool is used for finishing the edges of steps or other work that requires square edges.

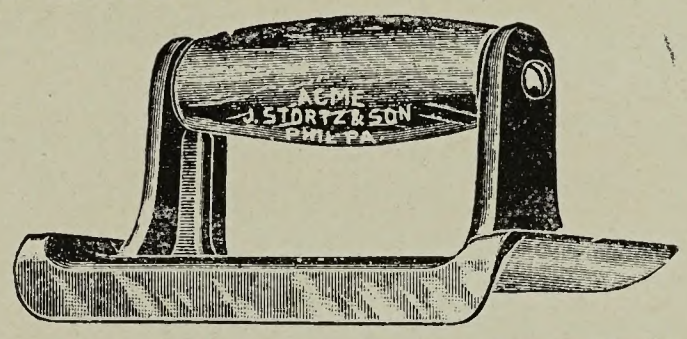
6 in. x 3 in. x 1½ in.

No. 207.—Bronze, polished ..... price, $1 40
208.—Iron, nickel-plated ..... " 85

ACME BEVEL EDGER

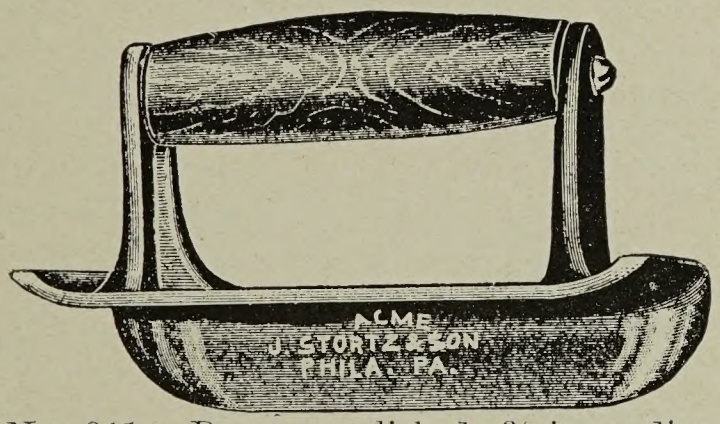
To bevel the edges of steps, corners of curbs, or work that requires a beveled or chamfered edge.

6 in. x 2¾ in., ⅝ in. bevel.



No. 209.—Bronze, polished ..... price, $1 30
210.—Iron, nickel-plated ..... " 58

ACME CURB TOOL OR EDGER



Curb tools or edgers are used to round and finish the edges of curbs, etc., or any work requiring perfectly rounded edges; made with ⅜ or ¾-in. radius.

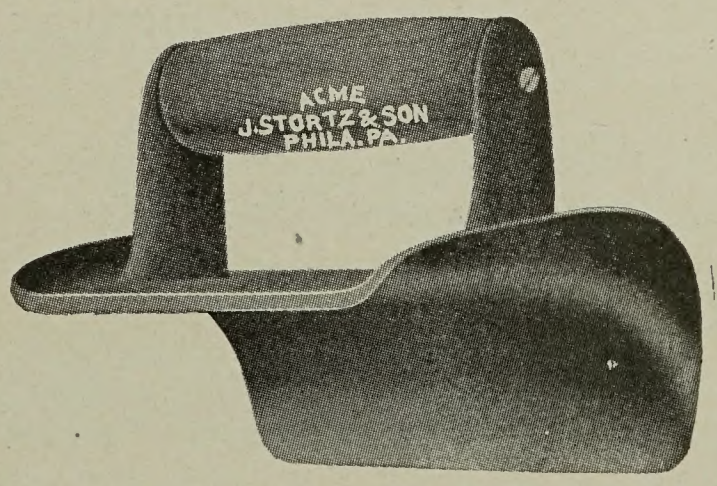
6 in. long, 3 in. wide.

No. 211.—Bronze, polished, ⅜-in. radius ..... price, $1 30
212.—Iron, nickel-plated, ⅜-in. radius ..... " 58
213.—Bronze, polished, ¾-in. radius ..... " 1 40
214.—Iron, nickel-plated, ¾-in. radius ..... " 65

ACME CURBING EDGER

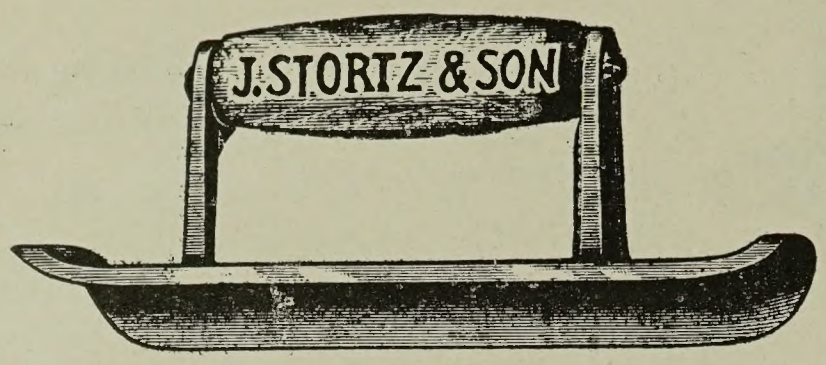
Especially designed to finish the edge of curbing or other work where a large round edge is desired.

6½ in. long, 3½ in. wide,
1½ in. radius.



No. 215.—Bronze, polished ..... price, $1 80
216.—Iron, nickel-plated ..... " 1 20

ACME EDGER, NARROW PATTERN



Used for the same purposes as the other numbers of Curb Tools or Edgers, but it is only 1¾ in. wide, this being found a desirable width for certain class of work.

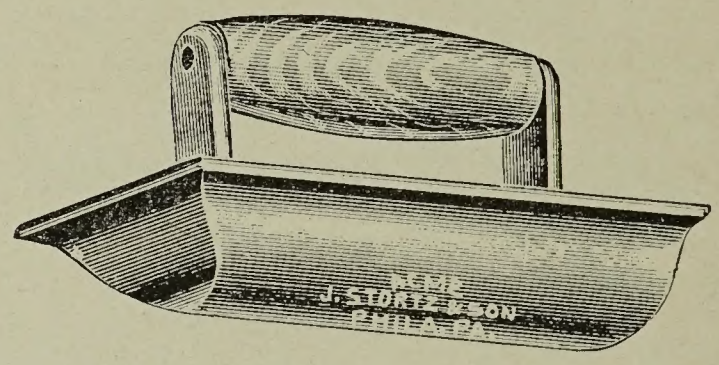
8 in. long, 1¾ in. wide
⅜ in. radius.

No. 219.—Bronze, polished ..... price, $1 40
220.—Iron, nickel-plated ..... " 65

ACME GUTTER TOOL

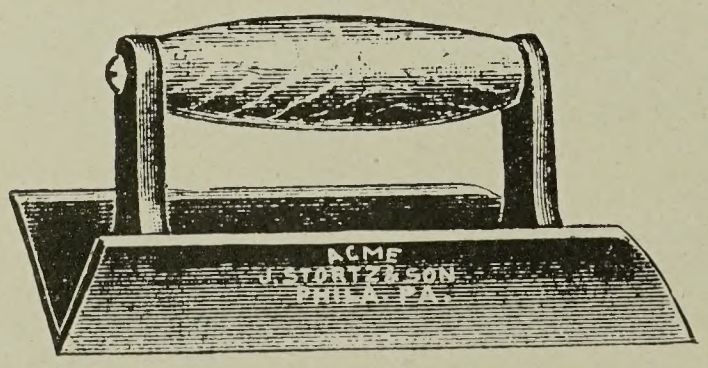
Will be found a labor saver in making a neat sidewalk gutter.

6 in. x 3½ in. x 1 in.



No. 223.—Bronze, polished ..... price, $1 80
224.—Iron, nickel-plated ..... " 1 20

ACME INSIDE CORNER TOOL



Inside Corner or Angle Tools are used for finishing the inner corners of steps or angles; one corner of the tool projecting allows working closely in corners of frame work.

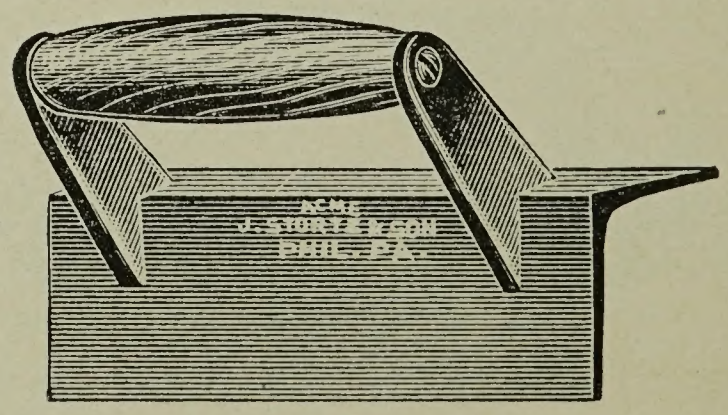
6 in. x 2 x 2 in.

No. 225.—Bronze, polished ..... price, $1 30
226.—Iron, nickel-plated ..... " 58

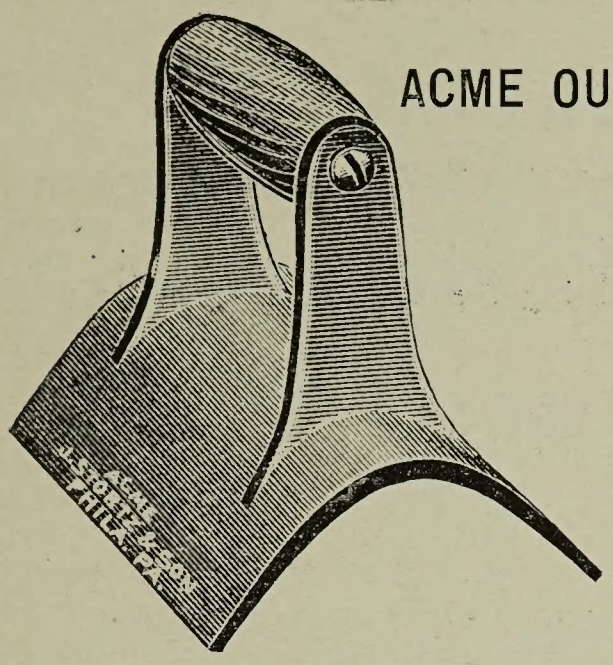
ACME OUTSIDE CORNER TOOL

Outside Corner or Angle Tools are used to finish the outside sharp angles of steps, copings or other work requiring sharp angles.

6 in. x 2 in. x 2 in.



No. 227.—Bronze, polished ..... price, $1 60
228.—Iron, nickel-plated ..... " 80



ACME OUTSIDE ROUND ANGLE TOOL

Outside Round Angle Tools are for the same purposes as Outside Corner Tools, where round angles are desired.

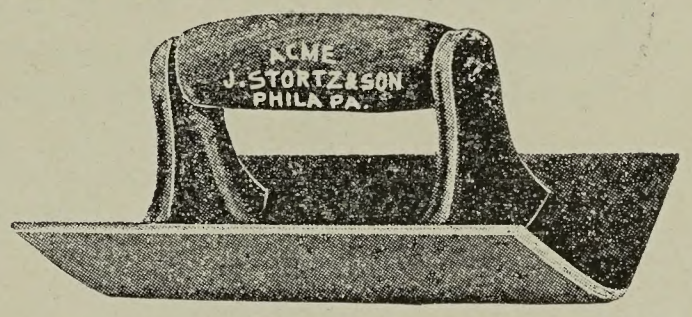
6¾ in. x 2 in. x 2 in.
1-in. radius.

No. 229.—Bronze, polished ..... price, $1 80
230.—Iron, nickel-plated ..... " 90

ACME INSIDE ROUND ANGLE TOOL

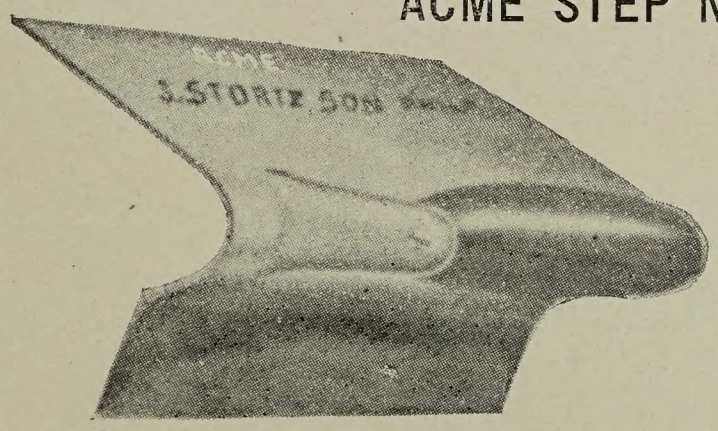
Are used for the same purposes as the Inside Corner Tool on work requiring a round instead of a sharp angle.

6¼ in. x 2 in. x 2 in.
1 in. radius.



No. 231.—Bronze, polished ..... price, $1 60
232.—Iron, nickel-plated ..... " 80

ACME STEP NOSING TOOL



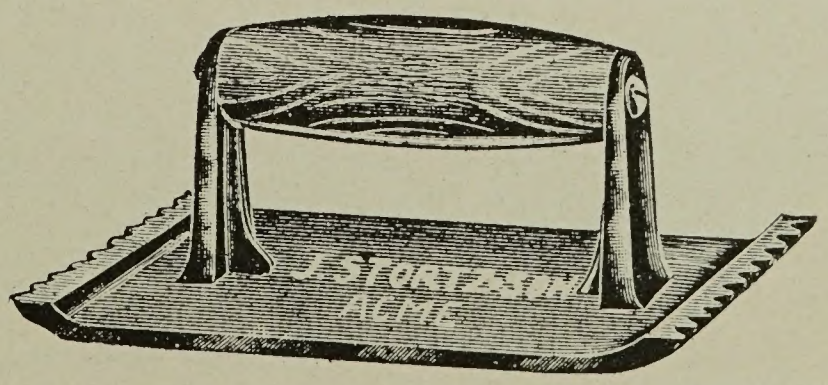
Indispensable for finishing the nosing on steps. A great labor saver. Will earn its cost on the first job.

6 in. long, 4 in. wide for 1½ in. tread.

No. 233.—Bronze, polished ..... price, $2 00
234.—Iron, nickel-plated ..... " 1 00

ACME CORRUGATING TOOL

The ideal tool to corrugate the surface of driveways, stables, etc. Assures a firm foot hold and prevents slipping. 6 in. long, 4½ in. wide, grooves ⅜ in. apart, ⅛ in. deep, 10 grooves with each stroke.

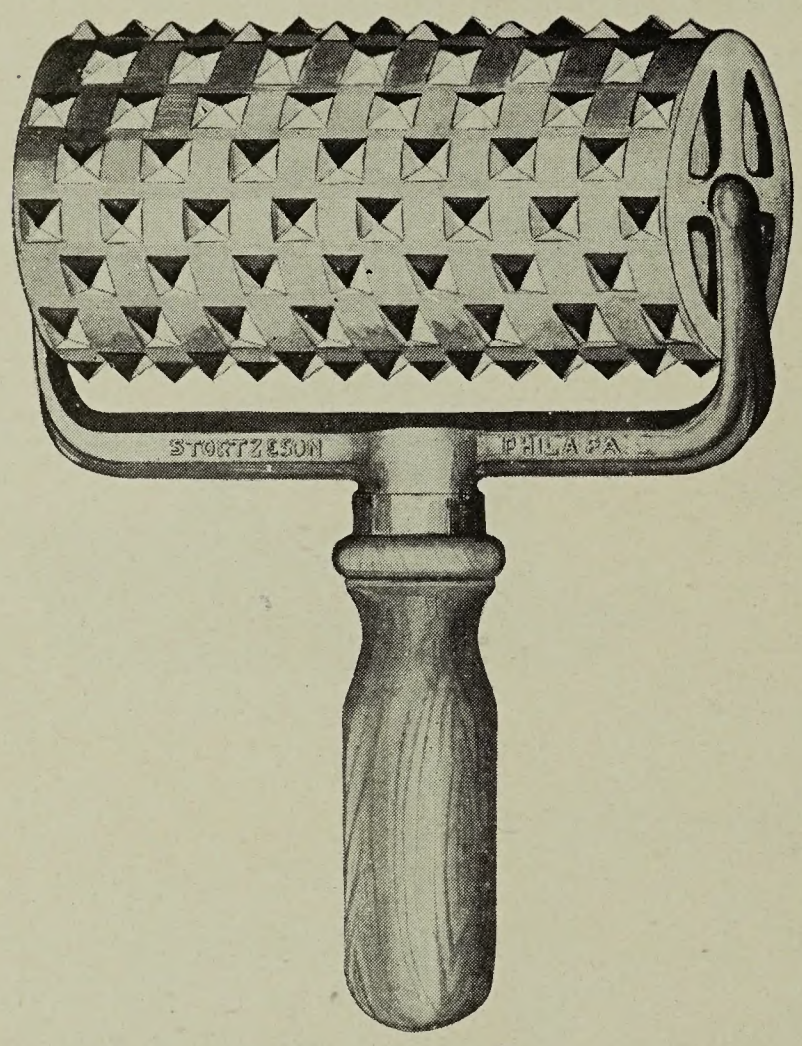


No. 239.—Bronze, polished ..... price, $3 00
240.—Iron, nickel-plated ..... " 1 50

CEMENT ROLLERS

To meet the **demand** for a low priced **Indentation Roller** we have added **Iron Rollers** to our list. These goods will be found **First-class** in every respect; **but we** would caution users to see that the teeth are thoroughly cleaned and oiled **after** using, so as to prevent rusting, and thereby causing the Tool to hang or **drag in** the indentations.

Fig. 315 IRON INDENTATION OR DOT ROLLER



As an extra cheap **indentation** roller, we have added this roller to our already extensive **assortment.** It is made of one **solid** piece and has four spokes, **which** makes it much stronger **than all** other low priced rollers **on the** market.

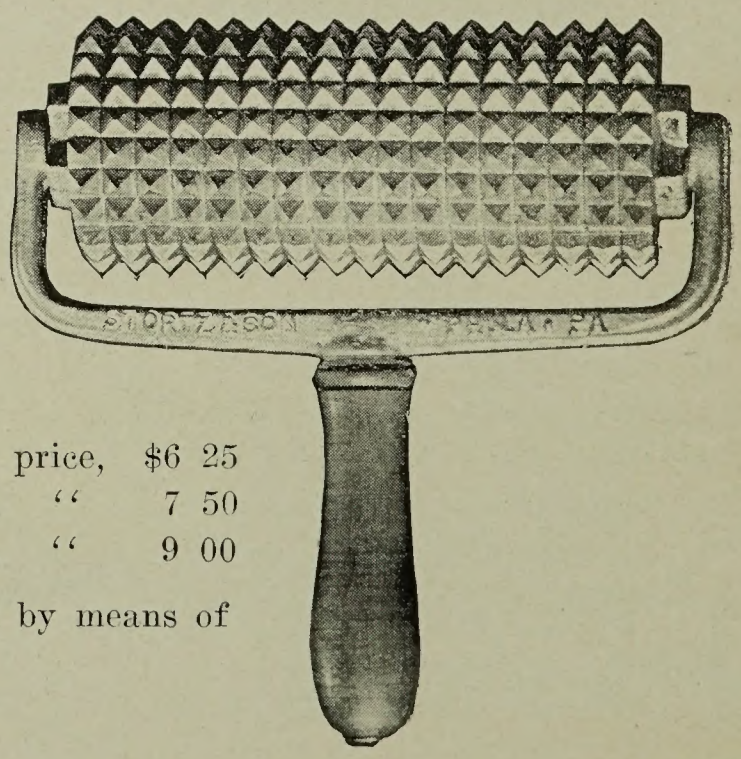
The teeth are placed in **alternate** rows and not milled **or machine** finished as all our other Dot Rollers are.

6 in. long, 4 in. diam.

No. 00.—Iron, aluminum **finish**
Price, $4 35

Fig. 316 IRON INDENTATION OR DOT ROLLER

Milled and Machine Finished.

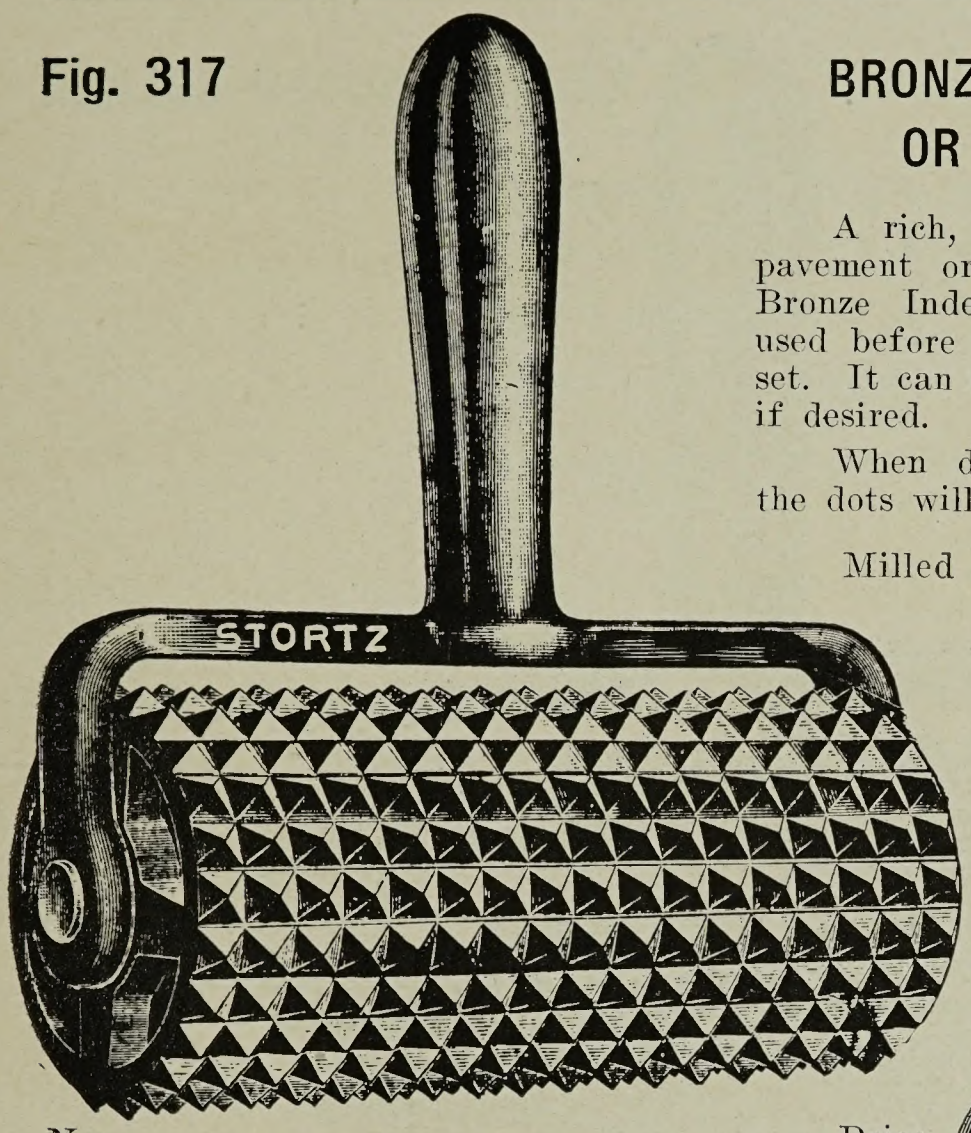


No. ½.—Iron, aluminum finish, 6 -in. price, $6 25
1½.—Iron, aluminum finish, 7½-in. " 7 50
2½.—Iron, aluminum finish, 10 -in. " 9 00

Any length of handle can be used by means of our Extension Handle.

(See page 13)

Fig. 317



BRONZE INDENTATION OR DOT ROLLER

A rich, artistic effect is given to a pavement or walk by the use of this Bronze Indentation Dot Roller. It is used before the material has thoroughly set. It can be used with a straight edge if desired.

When desired, the arrangement of the dots will be made to suit purchaser.

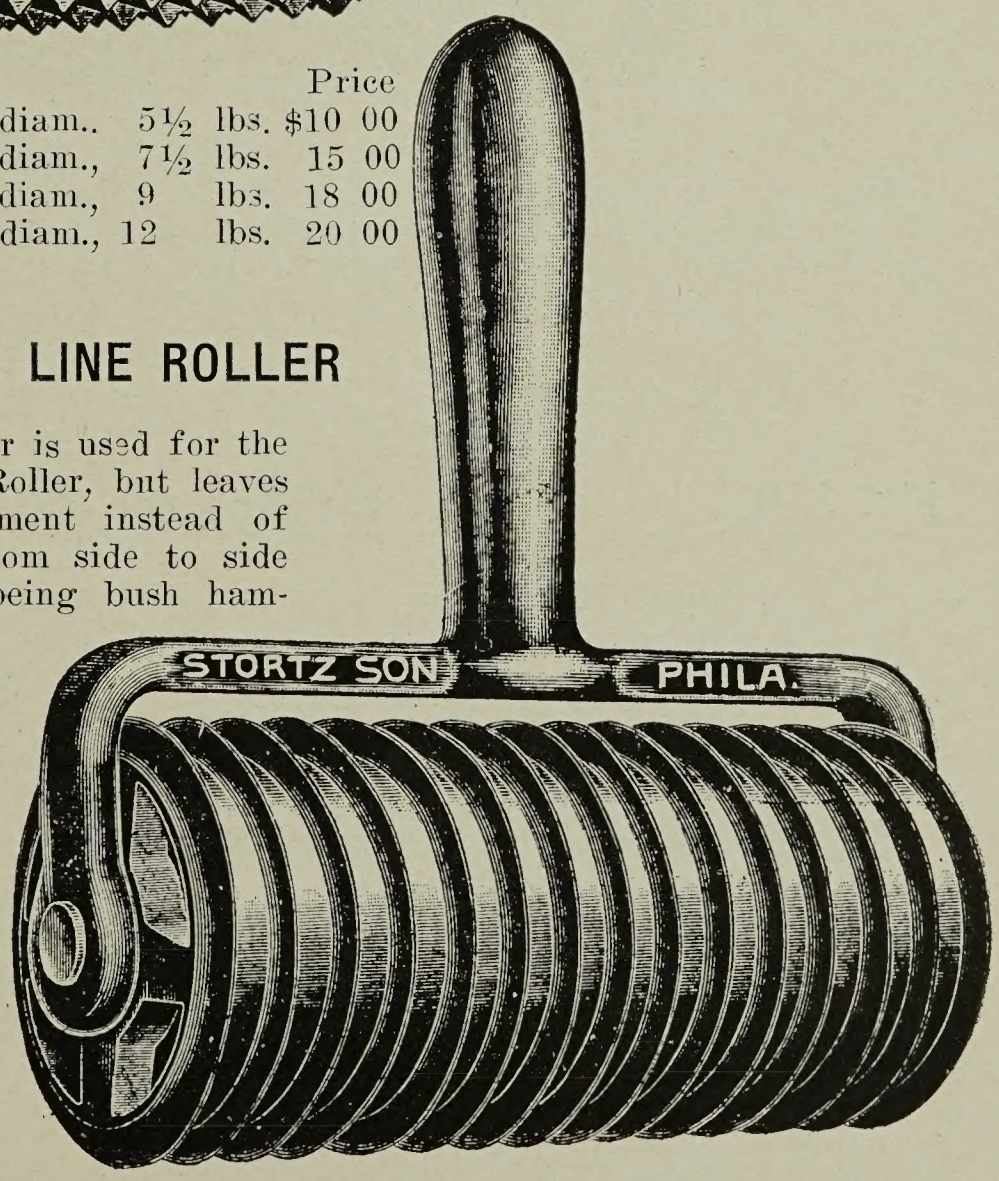
Milled and machine finish.

No.				Price
0. — 6	in. long, 3¼ in. diam..	5½	lbs.	$10 00
1. — 7½	in. long, 3¼ in. diam.,	7½	lbs.	15 00
2x.—10	in. long, 3½ in. diam.,	9	lbs.	18 00
2. —12	in. long, 3¼ in. diam.,	12	lbs.	20 00

Fig. 318 BRONZE LINE ROLLER

This hard Bronze Roller is used for the same purpose as the Dot Roller, but leaves fine lines across the pavement instead of indentations. By using from side to side gives the appearance of being bush hammered.

Lines can be spaced to suit purchasers.

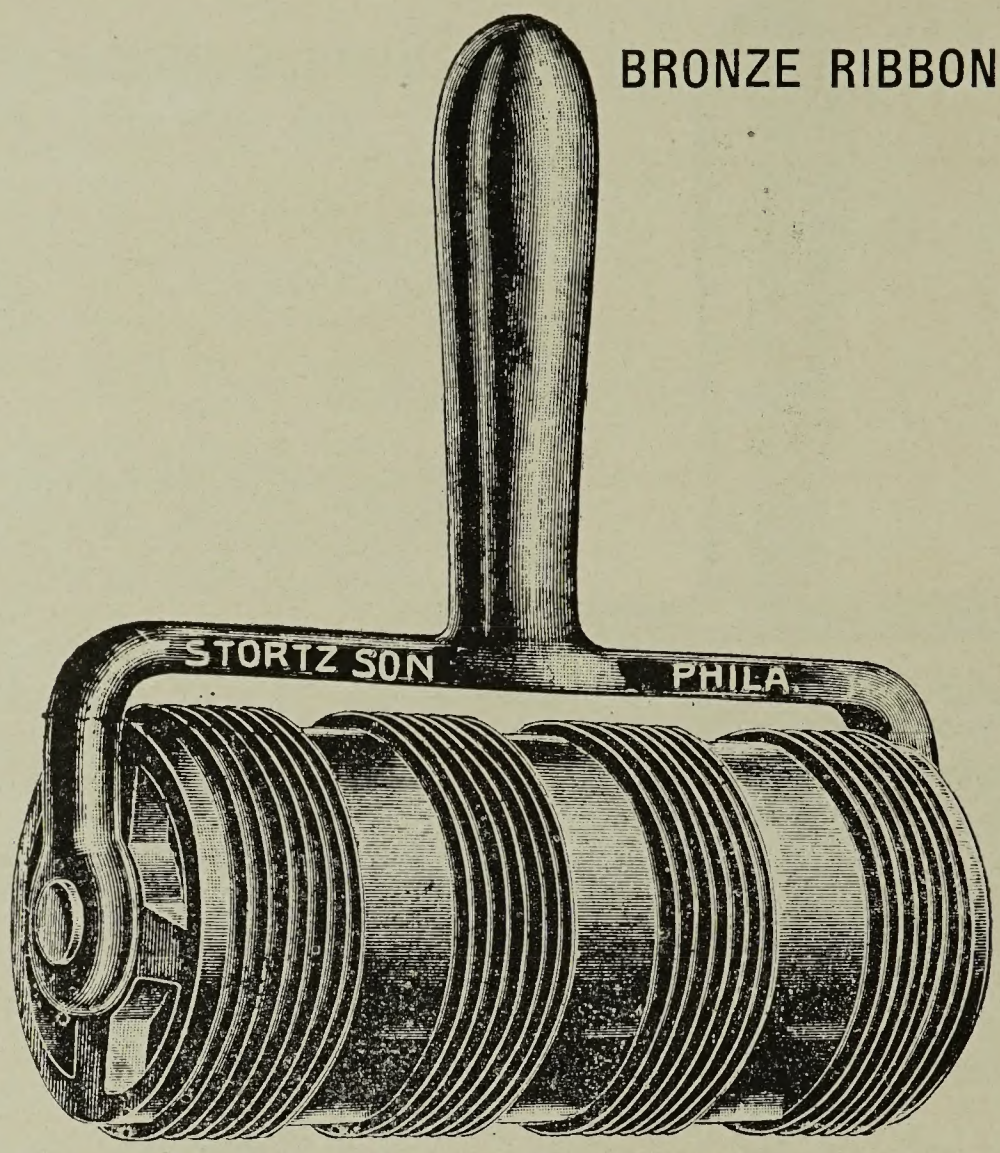


No. 3.— 7½	in. long, 3¼	in. diam., grooves	3/16	in. apart,	8	lbs..price,	$15 00
4.—12	in. long, 3¼	in. diam., grooves	3/16	in. apart,	11	lbs.. "	20 00
5.— 7½	in. long, 3¼	in. diam., grooves	½	in. apart,	8	lbs.. "	15 00
6.—12	in. long, 3¼	in. diam., grooves	½	in. apart,	11	lbs.. "	20 00

Any length of handle can be used by means of our Extension Handle. (See page13)

Fig. 319

BRONZE RIBBON ROLLER

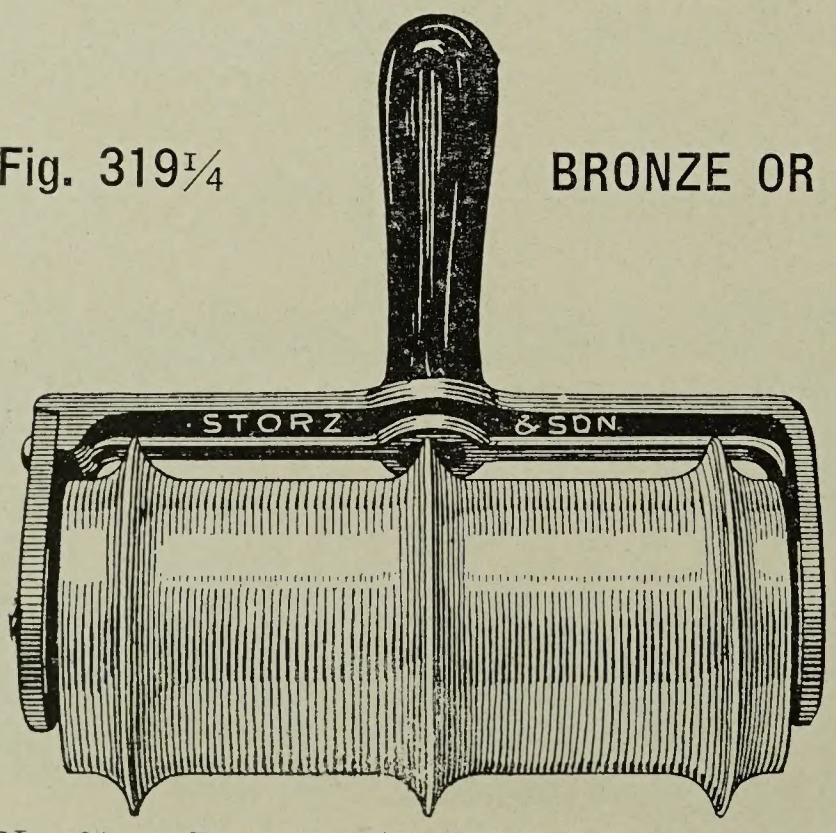


These Bronze Rollers are used for the same purpose as those on the preceding pages, and give a ribbon-like effect. Each ribbon is an inch in width, and is separated from the other by an inch of plain surface. Very ornamental.

No. 7.— 7½ in. long, 3¼ in. diam., 7½ lbs.....price, $15 00
8.—12 in. long, 3¼ in. diam., 10½ lbs..... " 20 00

Fig. 319¼

BRONZE OR IRON DRIVEWAY ROLLER



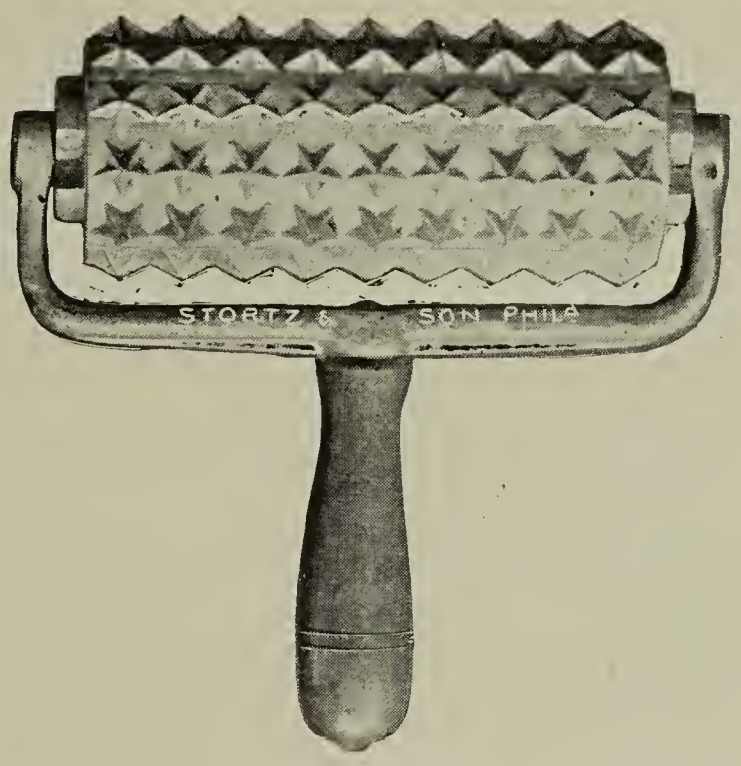
Used for grooving the floors of stables, driveways, etc., to prevent slipping and assure a good foothold for horses, etc.; also for drainage. Very practical.

		Price
No. 61	—Bronze, polished, 7½ in. long, 4 in. diam., 3 grooves, 3 in. apart	$15 00
61½	—Iron, polished, 7½ in. long, 4 in. diam., 3 grooves, 3 in. apart	7 50
62	—Bronze, polished, 12 in. long, 4 in. diam., 5 grooves, 3 in. apart	20 00

Any length of handle can be used by means of our Extension Handle.

(See page 13)

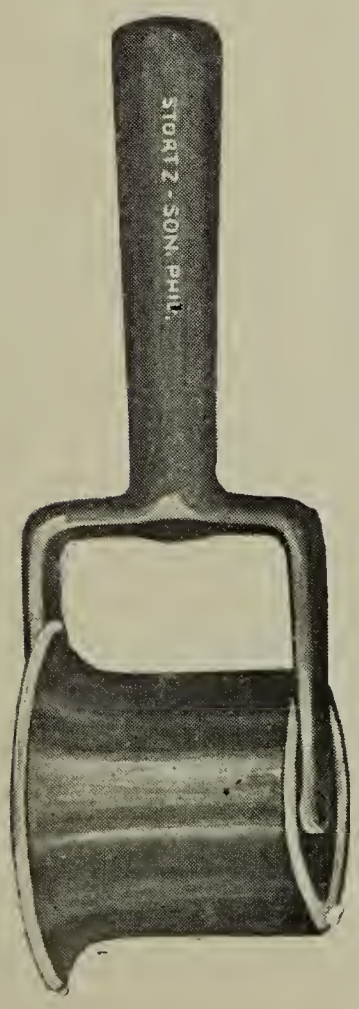
Fig. 319¾ BRONZE OR IRON STAR ROLLERS



These Rollers give a pavement a beautiful and artistic appearance. Made of bronze or iron. 7½ in. long, 3½ in. diameter.

No. 45 .—Bronze, polished .....price, $15 00
45½.—Iron, aluminum finish ..... " 7 50

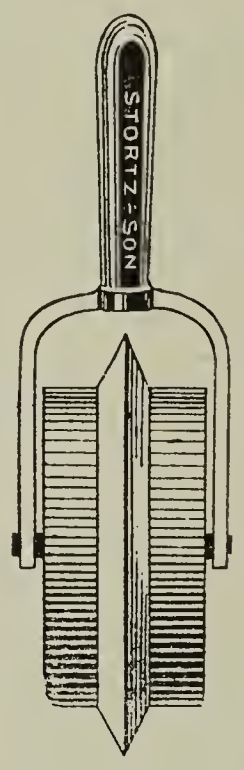
Fig. 320 C ROLLER EDGER



Made of bronze and iron on the same principle as the Roller Jointer and Fluted Roller. Particularly useful on inside circles or where inconvenient to use the regular Edgers.

No. 247.—Bronze, polished .....price, $4 00
248.—Iron, nickel-plated ..... " 2 50

Fig. 320 A BRONZE OR IRON ROLLER JOINTER OR GROOVER



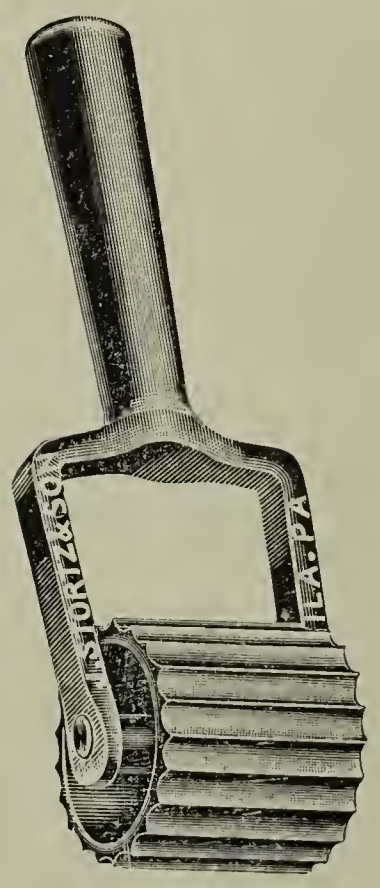
Made on the principle of the Dot Roller; it makes a neat joint, runs freely, works quick and well.

Wheel 4 in. x 2 in. wide.

No. 55 .—Jointer, fine joint for walks, bronze, polished .....price, $4 75
55½.—Jointer, fine joint for walks, iron, nickel-plated ..... " 2 50
65 .—Groover, wide groove for stables, etc., bronze, polished.. " 4 75
65½.—Groover, wide groove for stables, etc., iron, nickel-plated " 2 50

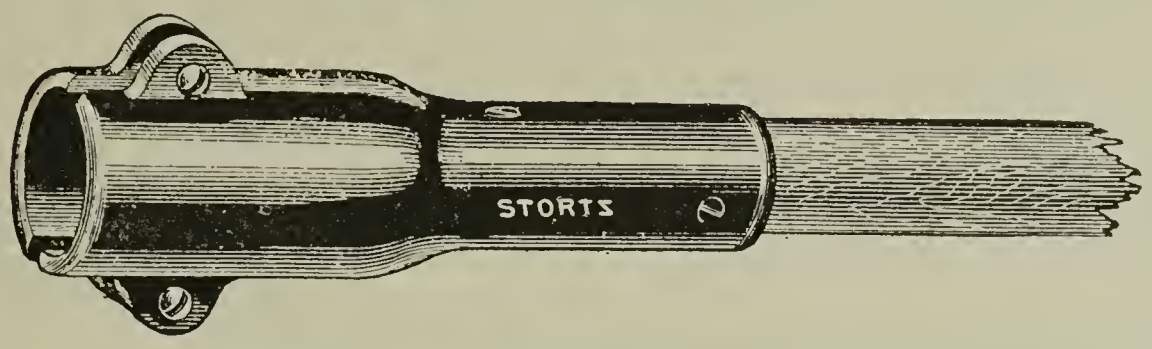
Fig. 320 B BRONZE OR IRON FLUTED ROLLER

Made same as the Roller Jointer. Can be used around the edge of walks for fancy border and for many other purposes; also where space is limited.



Bronze, polished .....price, $4 00
Iron, nickel-plated ..... " 2 50

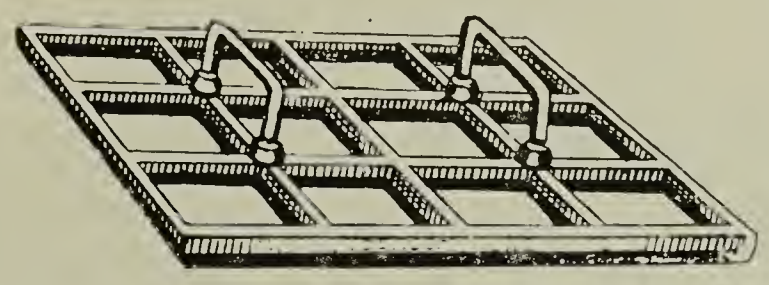
Fig. 320 EXTENSION HANDLES



Extension Handles are used to attach to the rollers when long handle is required. They can be securely fastened, are made of malleable iron, with 4½-ft. hickory handle, if not otherwise ordered.

No. 95.—Extension Handle .....price, $1 50

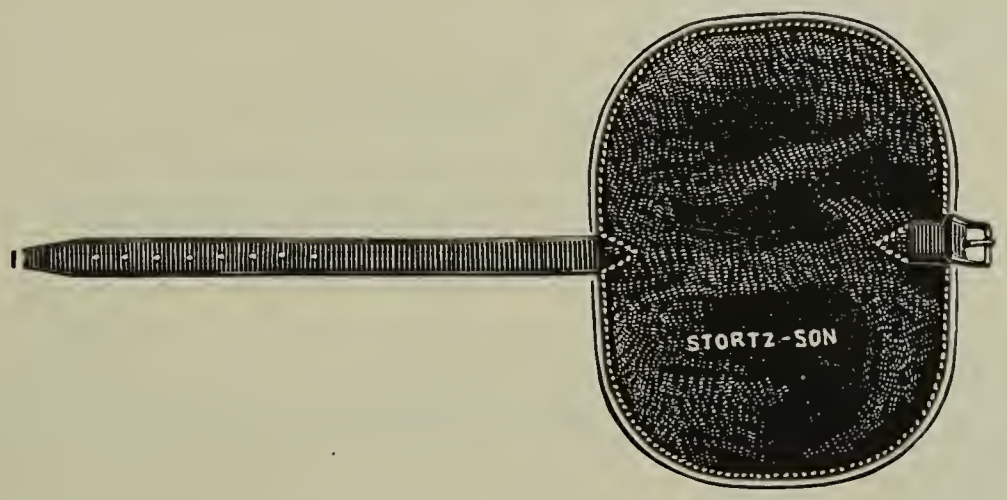
Fig. 320½ DRIVEWAY IMPRESSION FRAMES



This tool is recommended where there is a large area of work to be grooved, or impressed, to secure a foothold for horses, etc. Also used for ornamental purposes. A time and money saver.

No. 66.—Iron, 15 x20 , 12 impressions 4¾x4¾ in. .....price, $3 50
67.—Iron, 13 x16½, 6 impressions 4 x8 in. ..... " 3 50
68.—Iron, 12¾x19 , 6 impressions 6 x6 in. ..... " 3 50

Fig. 320¾ KNEE PADS



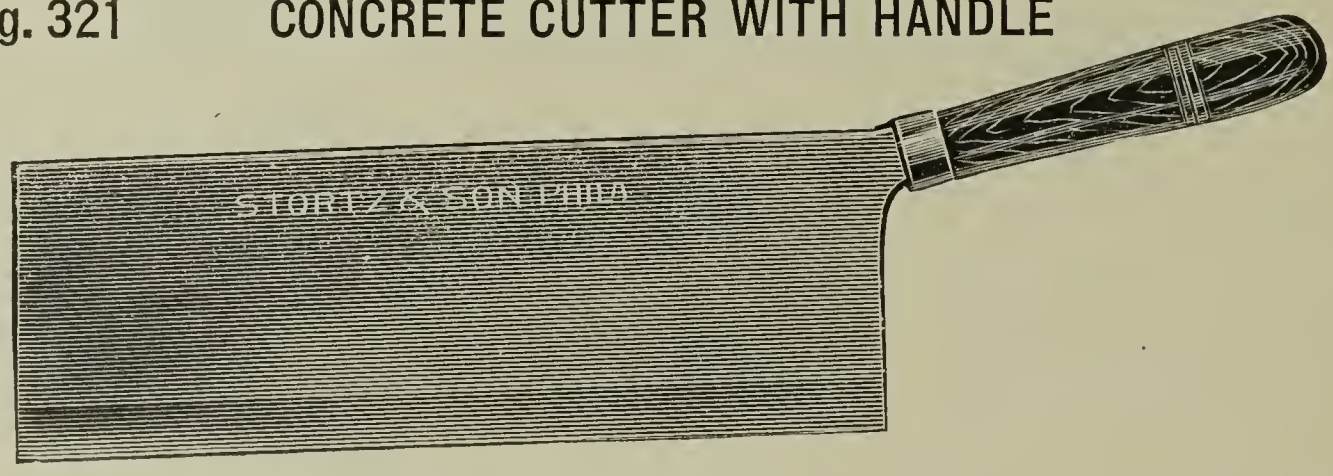
These Pads are a necessity to every workman to protect his knees during a long day's work, and the results from using same will be found satisfactory.

Made of good leather, heavily padded .....per pair, $2 50

CONCRETE CUTTERS

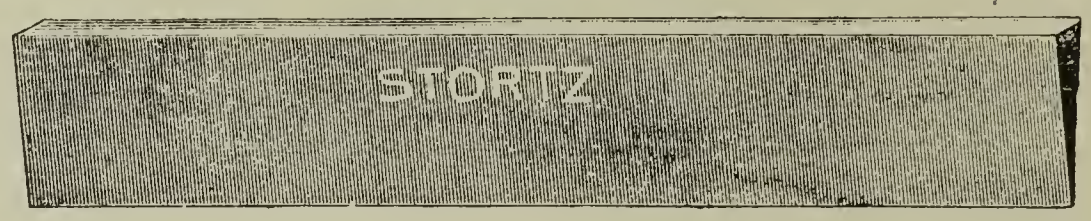
Are used to separate the concrete into blocks to allow for expansion or contraction.

Fig. 321 CONCRETE CUTTER WITH HANDLE



No. 99.—½ in. thick, 4 in. wide, 20 in. long .....price, each, $6 00
100.—¼ in. thick, 5 in. wide, 15 in. long ..... " 6 00

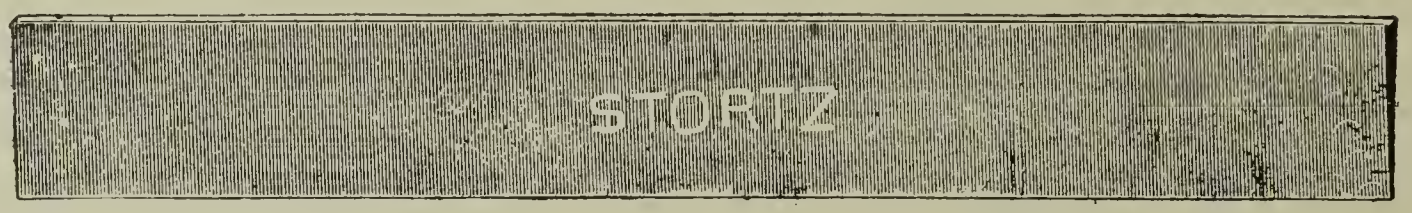
Fig. 322 CONCRETE CUTTER



Is made of tough Shear Steel, ground edges, oil finish.

No. 43.—½ in. thick, 4 in. wide, length,	12 in.	20 in.	24 in.	30 in.
Price, each	$2 50	$3 50	$4 00	$4 50

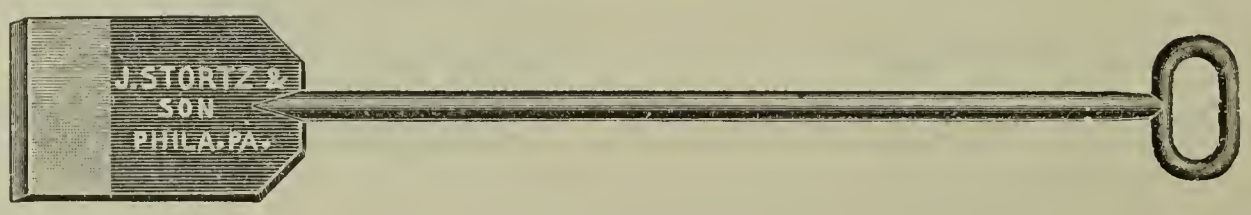
Fig. 323 TOP KNIFE



This Knife is made for cutting the cement mortar on top of the pavement; is made of tough Shear Steel, ground edges, oil finish.

No. 44.—3/16 in. thick, 2½ in. wide, length,	18 in.	24 in.	30 in.	36 in.
Price, each	$2 00	$2 50	$3 00	$3 50

Fig. 323½ CEMENT SLASHING BARS



Crucible steel blades, hardened and tempered. Blades 6 gauge, 6 in. wide.

No. 1.—Iron pipe, ring handles, blades 12 in., entire length 4½ ft...each, $4 00
2.—Wood handles, blades 10 in., entire length 5 ft..... " 3 00

The following Tools, Figs. 324 to 344½, inclusive, are made in two grades. The one grade is made of hard bronze, of a composition insuring the best wearing qualities, greatest toughness, and will not rust.

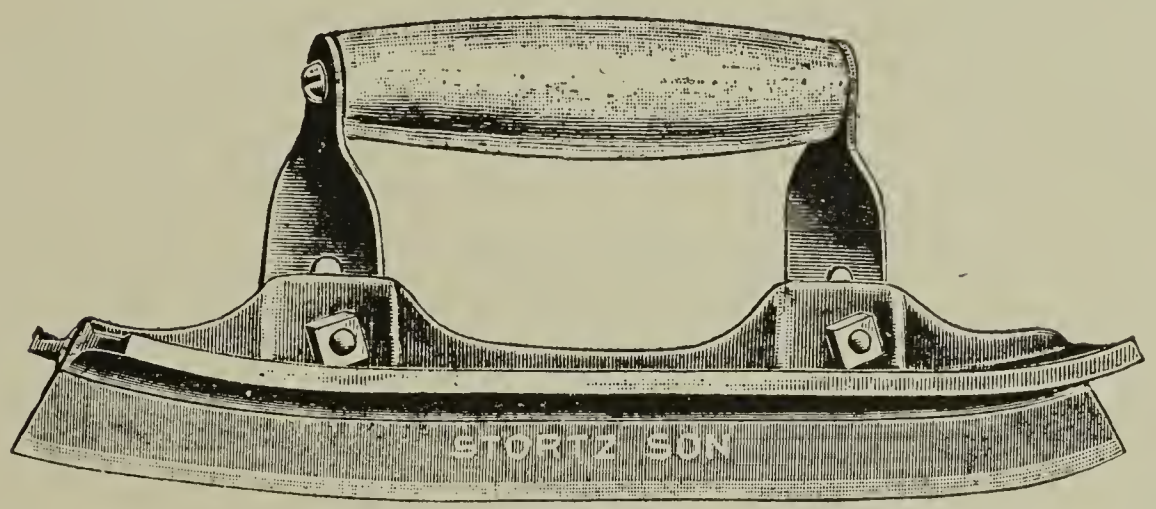
The other grade is made of clean hard grey iron; is therefore more serviceable, as well as economical.

SPECIAL TOOLS MADE TO ORDER OR DESIGNED AT SHORT NOTICE.

JOINTERS

Used to finish the joints between the squares in pavements, floors, etc., and prevent the edges from chipping.

Fig. 324 JOINTER, ADJUSTABLE BLADE

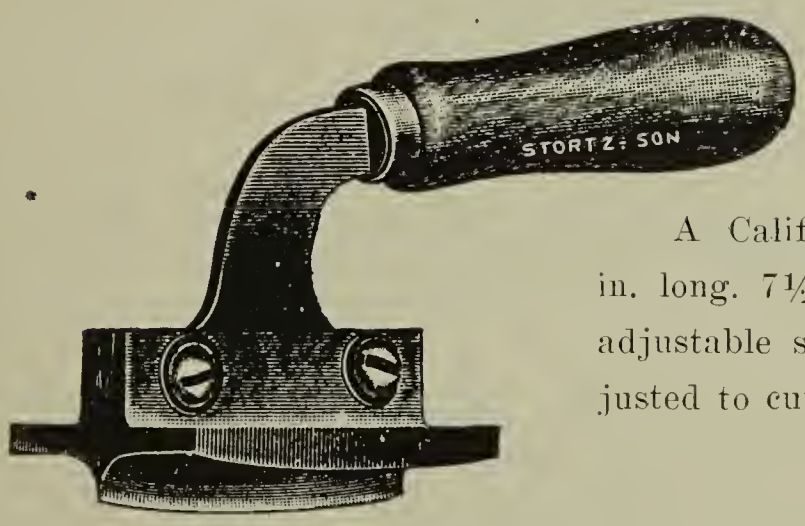


This tool has an adjustable steel blade, which can be adjusted from ⅜ in. to 1⅜ in. in depth. The tool finishes a good sized joint. It has a neat maple handle, which will not become loose. The blades are made interchangeable, and can be replaced when worn out.

8¼ in. long, 3¼ in. wide, 9¼ in. over all.

No. 9.—Bronze, polished	price,	$4 15
10.—Iron, nickel-plated	"	3 00
Additional Blades, 9¼ in. long, each	"	1 10

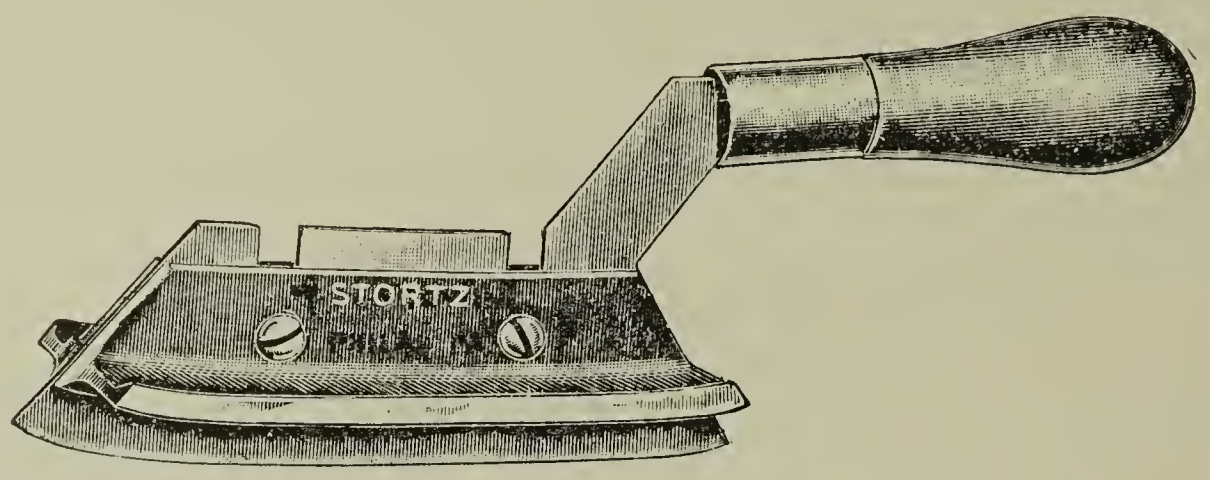
Fig. 324½ CALIFORNIA JOINTERS, ADJUSTABLE STEEL BLADES



A California favorite, 2⅝ in. wide, 2⅞ in. long. 7½ in. over all, with interchangeable adjustable steel blade ⅛ in thick; can be adjusted to cut a joint ¼ in. to ¾ in. deep.

No. 299.—Bronze, polished	price,	$2 60
300.—Iron, nickel-plated	"	1 35
Additional Blades	"	65

Fig. 325 JOINTER, ADJUSTABLE BLADE



Used for yard or lawn walks, or any work that requires a neat joint. It cuts and finishes the joint at one time. The blade can be adjusted from ⅜ in. to 1 in. cut. Blades ⅛ in. thick, are made interchangeable, and can be replaced at a trifling cost when worn out.

4½ in. long, 2⅛ in. wide, 10 in. over all.

No. 11.—Bronze, polished, steel blade ⅛ in. thick .....price, $2 75
12.—Iron, nickel-plated, steel blade ⅛ in. thick ..... " 2 20
Additional Blades ..... " 65

GROOVER, ADJUSTABLE BLADE

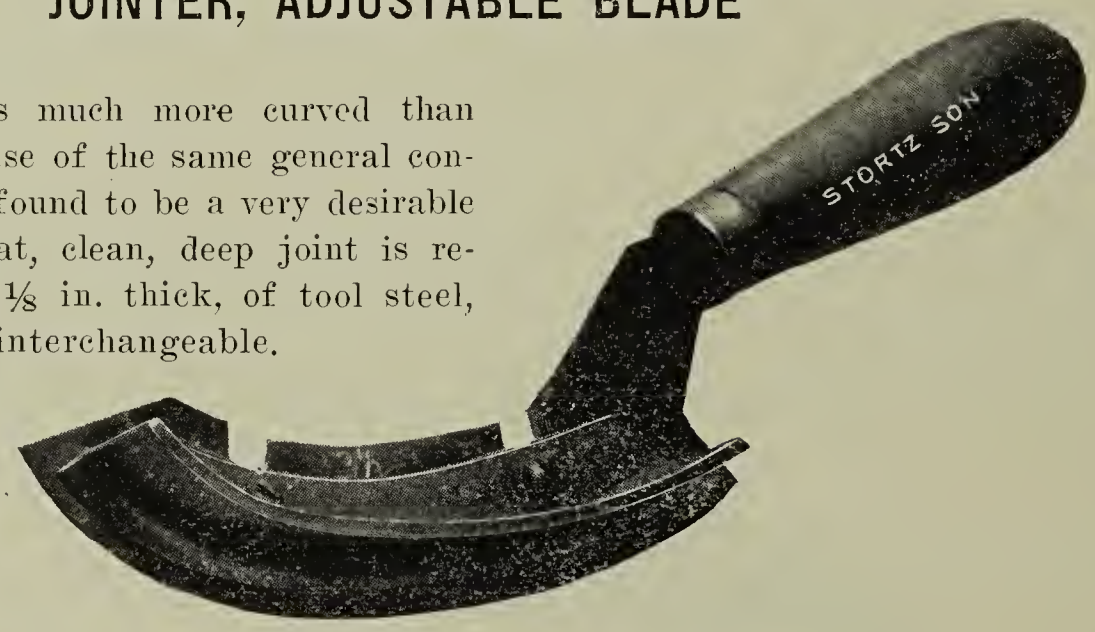
Same as Fig. 325

4½ in. long, 2⅛ in. wide, 10 in. over all.

No. 11½.—Bronze, polished, steel blade ¼ in. thick .....price, $3 50
12½.—Iron, nickel-plated, steel blade ¼ in. thick ..... " 3 00
Additional Blades ..... " 1 00

Fig. 326 JOINTER, ADJUSTABLE BLADE

This tool is much more curved than Fig. 325, otherwise of the same general construction. It is found to be a very desirable tool where a neat, clean, deep joint is required. Blades ⅛ in. thick, of tool steel, adjustable and interchangeable.



5 in. long, 2 in. wide, 11 in. over all.

No. 73.—Bronze Jointer, polished, ⅛ in. thick .....price, $2 75
74.—Iron Jointer, nickel-plated, ⅛ in. thick ..... " 2 25
Additional Blades, ⅛ in. thick ..... " 70

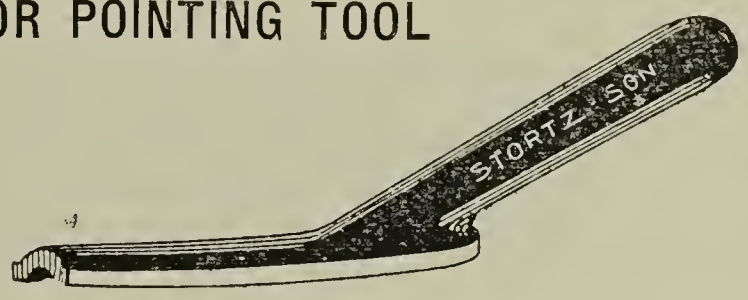
GROOVER, ADJUSTABLE BLADE

Same as Fig. 326

5 in. long, 2 in. wide, 11 in. over all.

No. 73½.—Bronze Groover, polished, steel blade ¼ in. thick ....price, $3 50
74½.—Iron Groover, nickel-plated, steel blade ¼ in. thick ... " 3 00
Additional Blades, ¼ in. thick ..... " 1 00

Fig. 326¼ RAISED JOINT OR POINTING TOOL



This tool is used to make raised or beaded joints on masonry, etc. Gives a desirable finish. Made in two sizes.

No. 76.—Iron, nickel-plated, ¼ in.	price,	$0	70
77.—Bronze, polished, ¼ in.	"	1	50
78.—Iron, nickel-plated, ⅜ in.	"		70
79.—Bronze, polished, ⅜ in.	"	1	50

Fig. 326½ STORTZ COMBINATION TUCK JOINTER

Half Round Beads

SPECIAL SHAPES MADE TO ORDER

These tools are used in pointing stone, brick and cement walls. Each tool makes two sizes of joint.

	Bronze, polished		Iron, nickel-plated	
⅛ and 3/16 in.	No. 163	$1 25	No. 164	$0 60
3/16 and ¼ in.	No. 165	1 25	No. 166	60
¼ and 5/16 in.	No. 167	1 25	No. 168	60
5/16 and ⅜ in.	No. 169	1 50	No. 170	70
⅜ and ½ in.	No. 171	1 50	No. 172	70

Fig. 326¾ STORTZ CONCAVE TUCK JOINTER

Used for the purpose of making a Concave Joint instead of the raised joint.

Sizes, ⅛ in., 3/16 in. and ¼ in. Special sizes made to order.

No. 173.—Bronze, polished	price,	$1	50
174.—Iron, nickel-plated	"		70

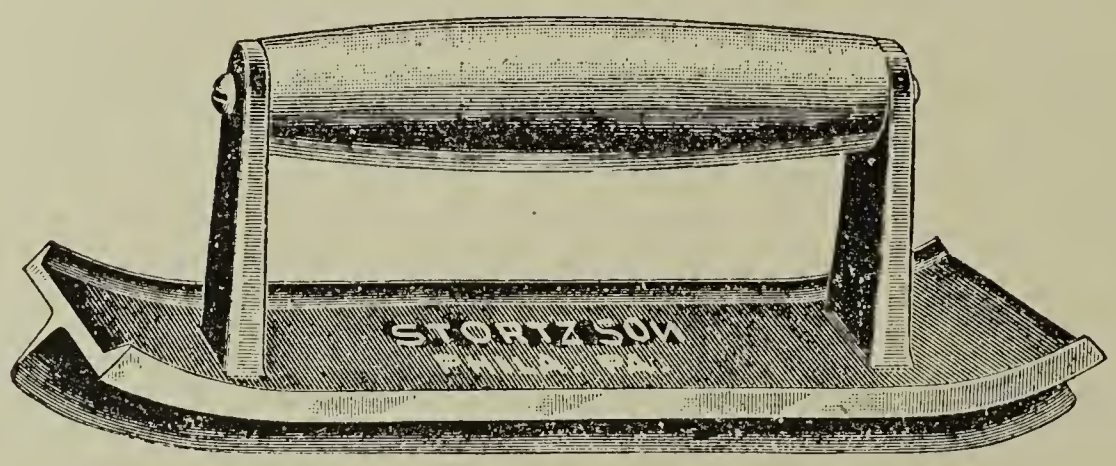
Fig. 326 A MITERING RULES

Made of the best quality Crucible Cast Steel.

Width,	2¾ in.	2¾ in.	2¾ in.	3 in.	3 in.	3 in.	3½ in.	3½ in.
Length,	6	8	10	12	14	16	18	20
Per dozen,	$8 00	$10 00	$12 00	$14 00	$16 00	$18 50	$21 00	$25 00

Special Sizes to Order.

Fig. 327 JOINTER

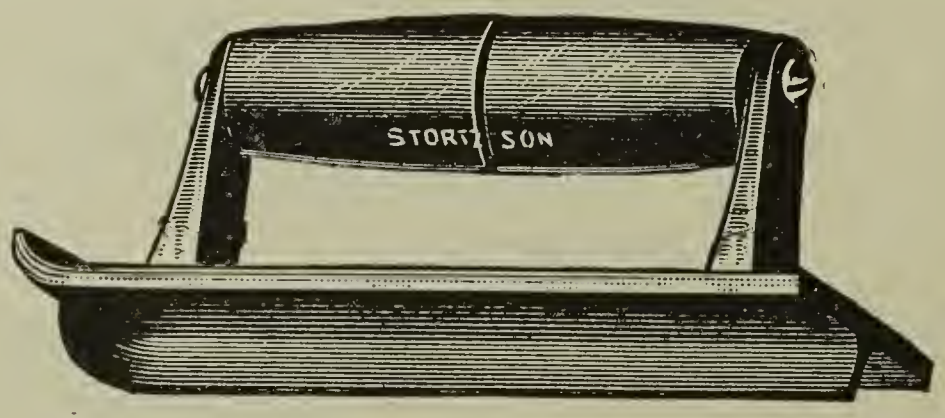


This Jointer is made in one solid piece, the blade ¼ in. thick. Finishes a joint about the same width as Fig. 324. Has a strong maple handle, which will not turn or become loose.

Bronze tools, polished; Iron tools, nickel-plated. All 3 in. wide.

No. 13	.—Bronze, 7½ in. long, ⅝ in. deep	price,	$2 50
13½	.—Bronze, 7½ in. long, 1 in. deep	"	3 00
313	.—Bronze, 9 in. long, ⅝ in. deep	"	2 75
14	.—Iron, 7½ in. long, ⅝ in. deep	"	1 75
14½	.—Iron, 7½ in. long, 1 in. deep	"	1 75
314	.—Iron, 9 in. long, ⅝ in. deep	"	2 00

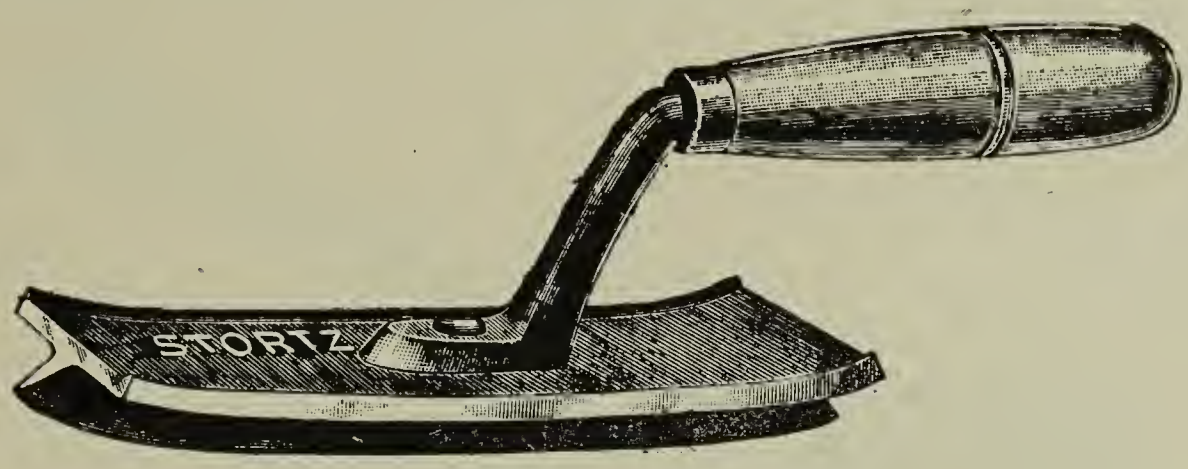
Fig. 327½ JOINTER



This Jointer is made with one straight end, as shown in cut, the blade 3/16 in. thick, ½ in. deep, otherwise the same in general finish as Fig. 327, and is very desirable for making a neat joint in corners or against frame work.

175	.—Bronze, polished, 7½ in. long, 3 in. wide	price,	$2 50
176	.—Iron, nickel-plated, 7½ in. long, 3 in. wide	"	1 75
175½	.—Bronze, polished, 12 in. long, 3 in. wide	"	3 00
176½	.—Iron, nickel-plated, 12 in. long, 3 in. wide	"	2 00

Fig. 328 JOINTER

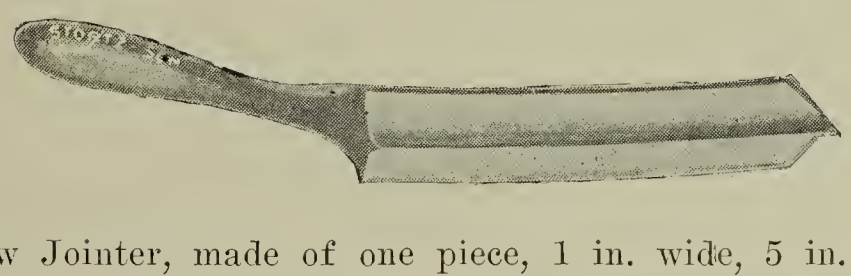


This Jointer is made with a strong neat maple handle. The blade is ½ in. deep and 3/16 in. thick. It finishes a joint somewhat like Fig. 329.

4¾ in. long, 2½ in. wide, 9½ in. over all.

No. 15.—Bronze, polished .....price, $2 70
16.—Iron, nickel-plated ..... " 2 00

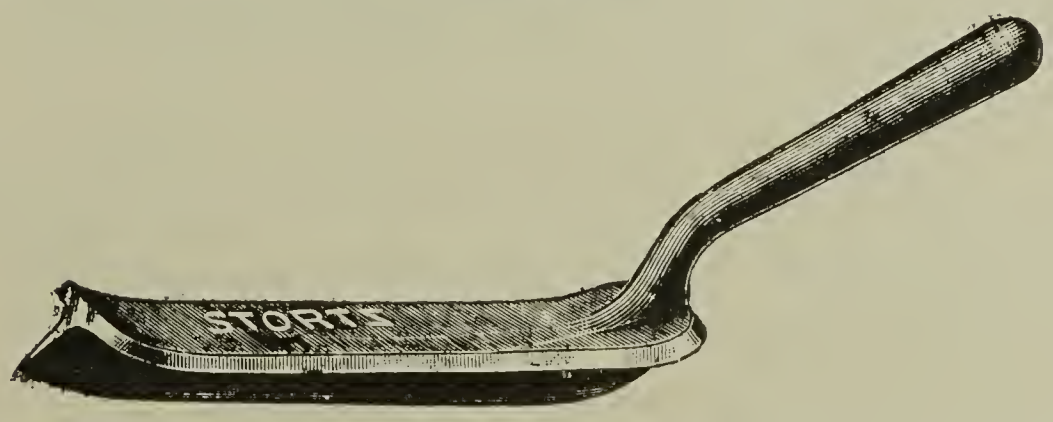
Fig. 328½ NARROW JOINTER



Extra narrow Jointer, made of one piece, 1 in. wide, 5 in. long and 9 in. over all, with thin blade about 3/16 in. deep.

No. 287.—Bronze, polished .....price, $1 20
288.—Iron, nickel-plated ..... " 56

Fig. 329 JOINTER

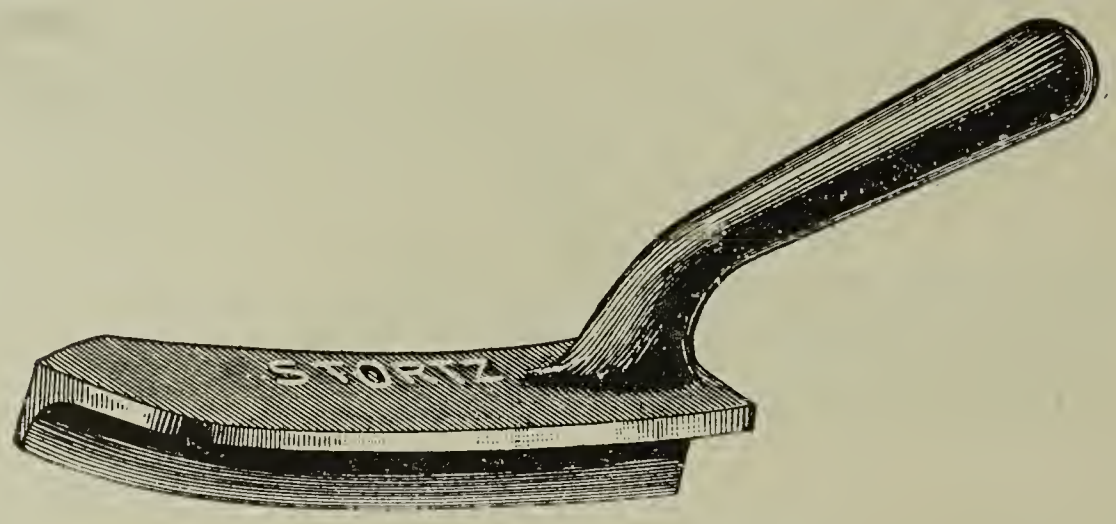


This tool is made in one piece, with blade about the same thickness and width of Fig. 328.

4 in. long, 1⅝ in. wide, blade ⅜ in. deep, 8 in. over all.

No. 17.—Bronze, polished .....price, $1 20
18.—Iron, nickel-plated ..... " 60

Fig. 330 JOINTER



This is the latest improved Jointer. It is convexed both lengthwise and crosswise. It has a blade ½ in. deep, and finishes a medium-sized joint. The handle is large and full, conforming to the hand. An excellent tool.

5 in. long, 2⅜ in. deep, 8 in. over all.

No. 83.—Bronze, polished ..... price, $1 75
84.—Iron, nickel-plated ..... " 80

Fig. 331 JOINTER

This Jointer is likewise convexed both lengthwise and crosswise; has a blade ⅜ in. deep, very thin, making a joint about similar to the steel-bladed Jointers. The handle being slightly oval, insures a firm grip, with no tendency to turn in the hand. It is made of one piece.

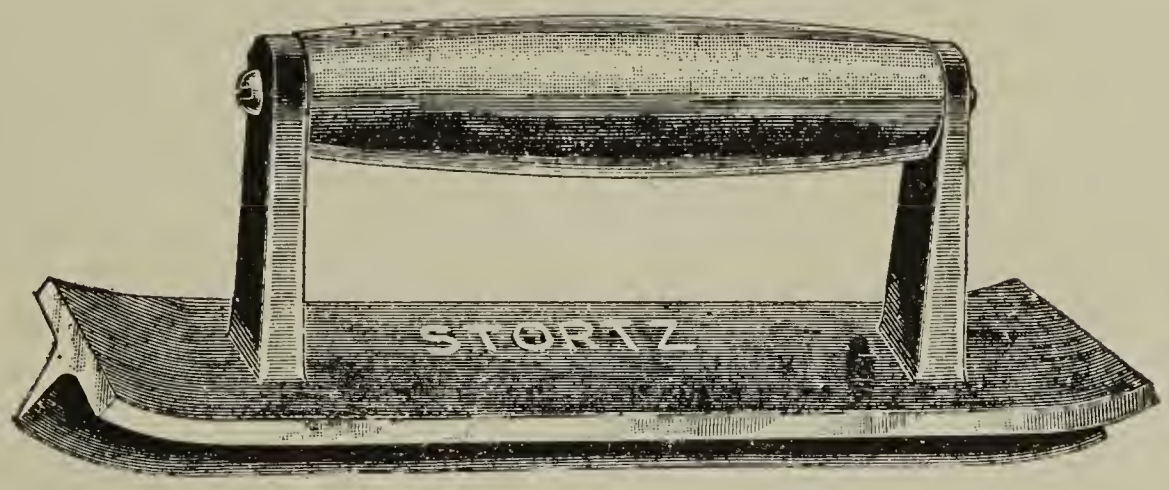
5 in. long, 2⅜ in. wide, 8¾ in. over all.

No. 63.—Bronze, polished ..... price, $1 75
64.—Iron, nickel-plated ..... " 80

DRIVEWAY GROOVERS

These tools are used to make wide joints or grooves in pavements, walks, driveways and stables to prevent horses from slipping, etc. The grooves will also drain the floor, etc.

Fig. 332 DRIVEWAY GROOVER



Made in one piece, with a blade ½ in. thick and ⅝ in. deep, the right width for general work. Has a strong, neat maple handle, which will not turn or become loose.

8 in. long, 3 in. wide.

No. 19.—Bronze, polished ..... price, $2 50
20.—Iron, nickel-plated ..... " 1 75

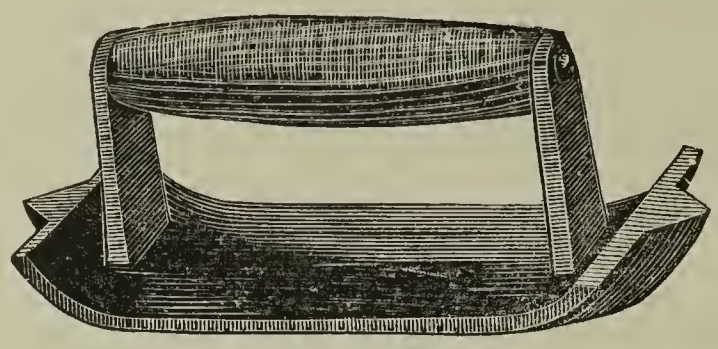
Fig. 332¼ DRIVEWAY GROOVER

Made with one straight end, as shown in cut, and is the same in style and finish as Fig. 332, but makes wider grooves.

7½ in. long, 3 in. wide.

No. 177.—Bronze, polished ..... price, $2 50
178.—Iron, nickel-plated ..... " 1 75

Fig. 332½ DRIVEWAY GROOVER



Designed for work where an extra wide and deep groove is desired, the blade being ⅝ in. deep by 1 in. wide at the top. A good, strong and serviceable tool.

3 in. wide, 7 in. long.

No. 153.—Bronze, polished ..... price, $3 50
154.—Iron, nickel-plated ..... " 2 00

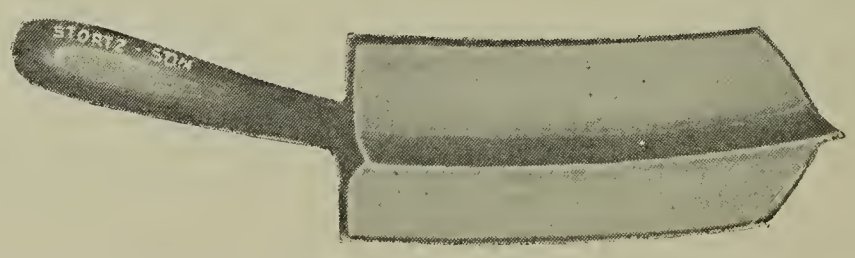
Fig. 333 DRIVEWAY GROOVER

This Groover is used for the same purpose as Fig. 332. It is made in one piece, with blade ½ in. thick and ⅝ in. deep.

5 in. long, 2 in. wide, 8½ in. over all.

No. 21.—Bronze, polished ..... price, $1 75
22.—Iron, nickel-plated, ... " 80

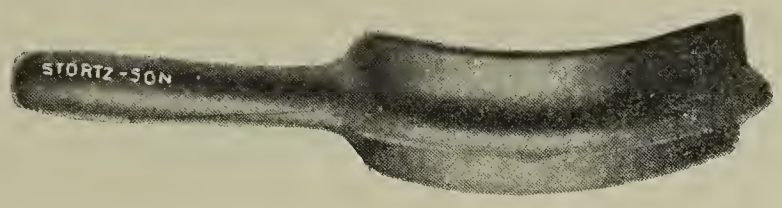
Fig. 333½ DRIVEWAY GROOVER



This extra wide Groover makes a groove ½ in. wide and ¾ in. deep; is made of one piece 2¾ in. wide, 5 in. long, 9 in. over all. It makes a wide groove and gives a neat appearance.

No. 285.—Bronze, polished ..... price, $1 75
286.—Iron, nickel-plated ..... " 80

Fig. 333¾ ROUND BLADE GROOVER



This tool makes a round groove ½ in. thick, ½ in. wide, is 9 in. long and 2 in. wide. A very useful article.

No. 283.—Bronze, polished ..... price, $1 75
284.—Iron, nickel-plated ..... " 80

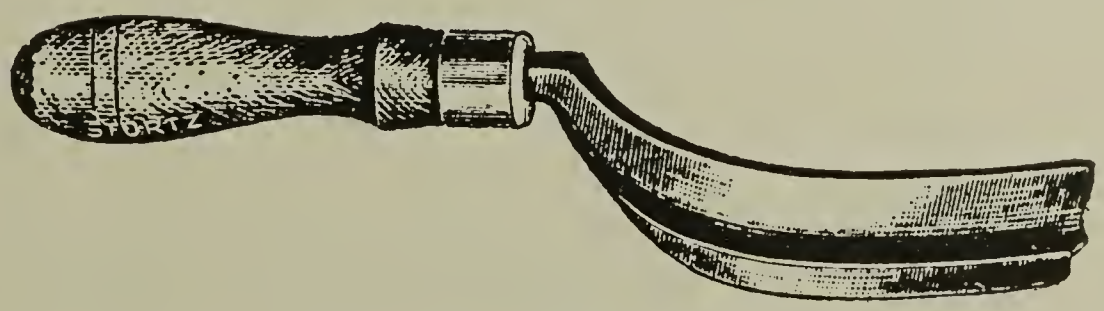
Fig. 334 DRIVEWAY GROOVER

This Groover has an adjustable steel blade ¼ in. thick, which can be adjusted from ⅞ in. to 1½ in. in depth, and makes a very wide groove. The blades are made interchangeable, and can be replaced at an additional cost. A strong, well made, useful tool.

8½ in. long, 3¼ in. wide, 10 in. over all.

No. 71.—Bronze, polished ..... price, $6 00
72.—Iron, nickel-plated ..... " 5 00
Additional Blades, 10 in. long ..... " 1 80

Fig. 335 DRIVEWAY GROOVER

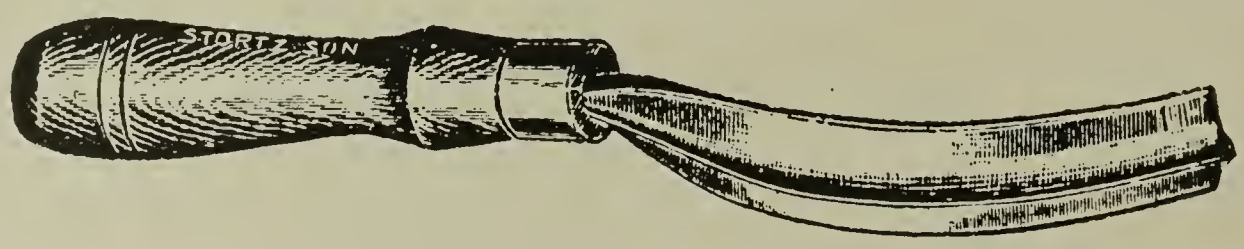


This Groover has a large strong maple handle; blades ½ in. deep, not so wide as Fig. 333. It makes a deep groove, and gives a neat appearance.

4½ in. long, 1½ in. wide, 10½ in. over all.

No. 101.—Bronze, polished ..... price, $1 75
102.—Iron, nickel-plated ..... " 1 25

Fig. 336 DRIVEWAY GROOVER

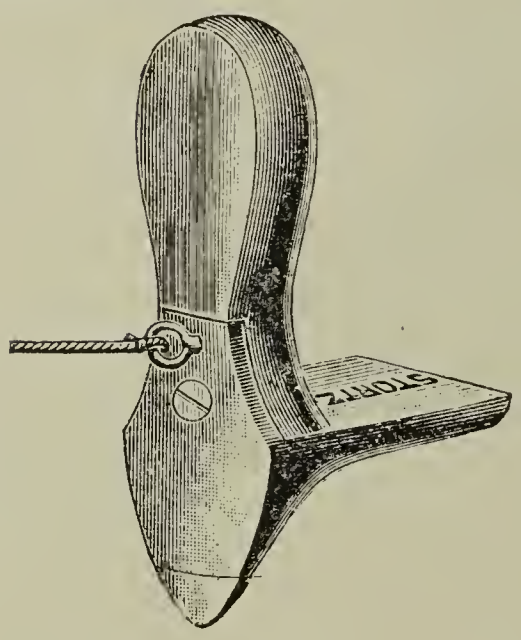


This Groover is of the same general design as Fig. 335; 1½ in. longer, ⅝ in. wider; blade ⅝ in. deep, and somewhat thicker, therefore making a wider groove.

6 in. long, 2⅛ in. wide, 12 in. over all.

No. 103.—Bronze, polished ..... price, $2 00
104.—Iron, nickel-plated ..... " 1 50

Fig. 337 RADIUS TOOL



Radius tools, with the aid of a string, are used for laying out circles or corners of pavements, etc.; is also used as a curb tool around inside circles or where the curb tools canot be used.

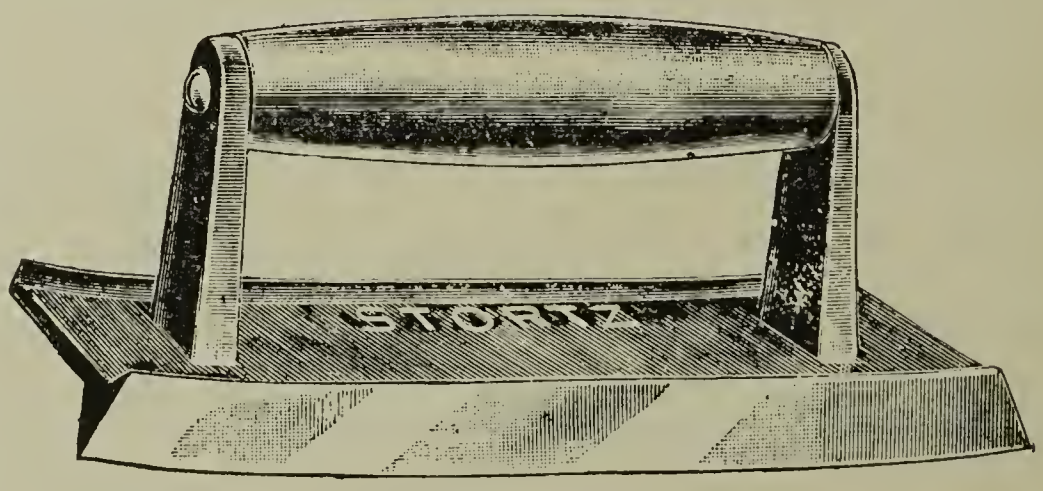
7 in. high, 3 x 2 in. wide.

No. 41.—Bronze, polished ..... price, $1 15
42.—Iron, nickel-plated ..... " 90

Fig. 338 BEVEL TOOL

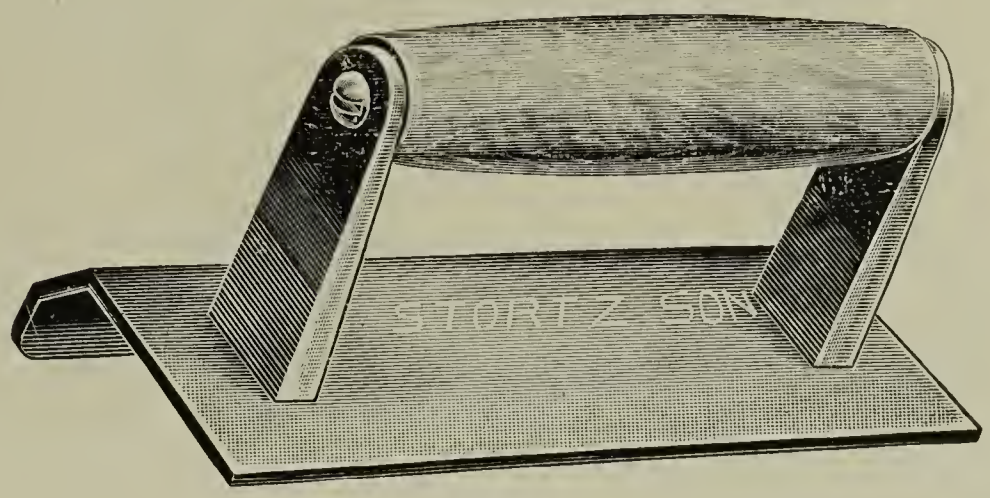
This tool is used in beveling the edge or corners of curbs and steps, or any work where a beveled edge is desired to prevent chipping. It is strong, neat, and well proportioned.

7½ in. long, 3 in. wide.



No. 35.—Bronze, polished ..... price, $2 50
36.—Iron, nickel-plated ..... " 2 00

Fig. 338½ BEVEL EDGER



This tool is for same general use as Fig. 338; makes ⅝ in. bevel edge; very neat finish.

7½ in. long, 3 in. wide.

No. 179.—Bronze, polished ..... price, $2 50
180.—Iron, nickel-plated ..... " 2 00

Fig. 339

STEP EDGER

Step Edgers are used for finishing the edges or corners of steps, copings, etc., or other work that requires a very slight edge. It is made of one piece, with a good strong handle that will not become loose or turn.

7 in. long, sides 1¼ in., face 1½ in.

No. 289.—Bronze, polished ..... price, $2 75
290.—Iron, nickel-plated ..... " 1 90

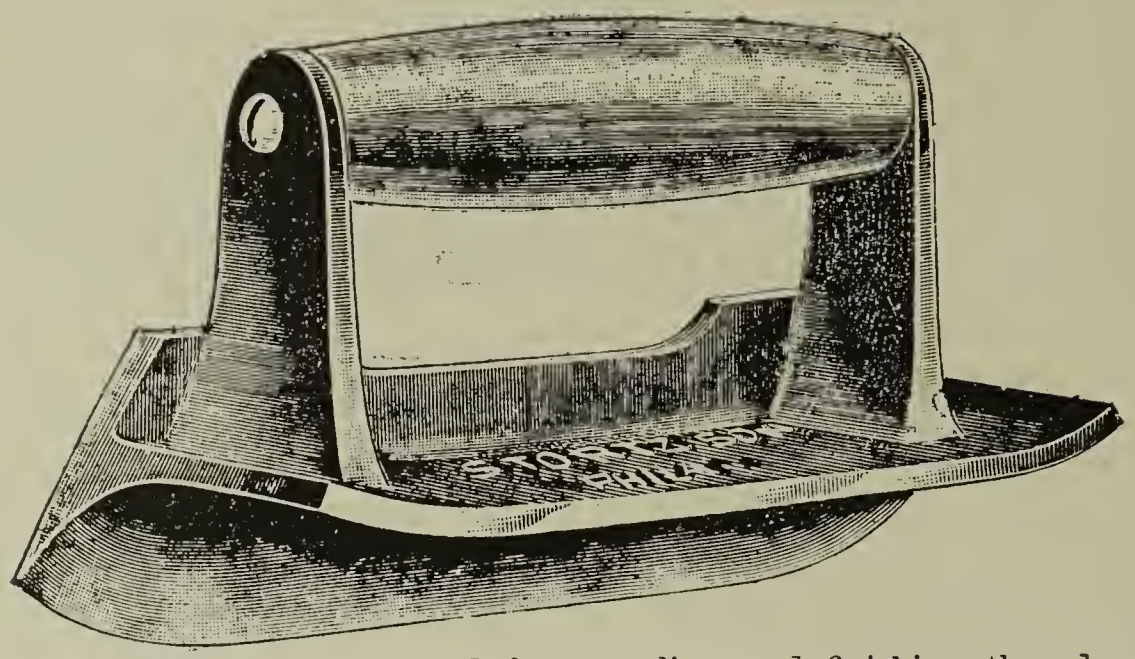
Fig. 339¼ SQUARE EDGER

This Edger is used for the same general purposes as Fig. 339, but is different in design, as shown in cut.

7 in. long, 3 in. wide.

No. 181.—Bronze, polished ..... price, $2 50
182.—Iron, nickel-plated ..... " 2 00

Fig. 340 CURB TOOL OR EDGER



Curb Tools or Edgers are used for rounding and finishing the edges or corners of cement curbs, walks, etc., to prevent the edges and sides from chipping. They are made in various radiuses to answer all requirements.

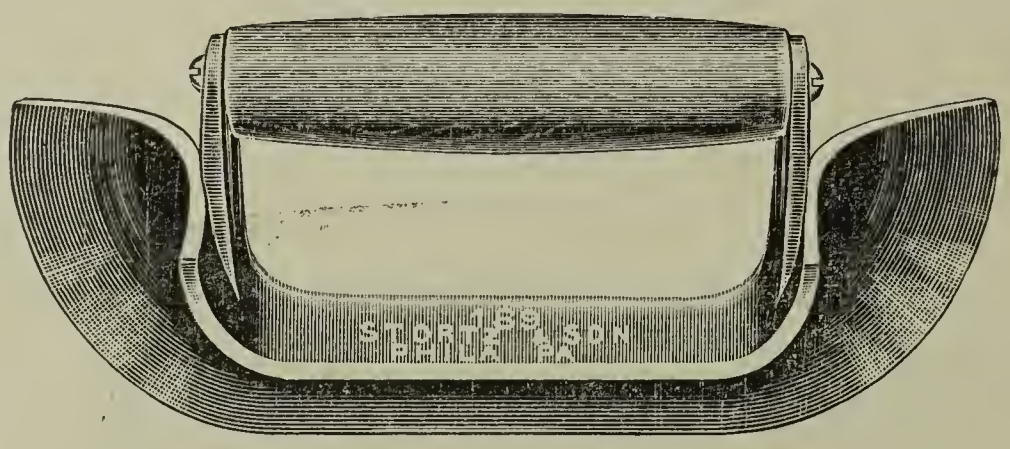
Also known as Quarter Rounds.

Bronze tools, polished; Iron tools, nickel-plated.

No. 23.—Bronze,	⅜	in.	radius,	7½	in.	long,	2½	in.	wide	price,	$2	25
24.—Iron,	⅜	in.	"	7½	in.	"	2½	in.	"	"	1	70
25.—Bronze,	½	in.	"	7½	in.	"	2½	in.	"	"	2	25
26.—Iron,	½	in.	"	7½	in.	"	2½	in.	"	"	1	70
27.—Bronze,	1	in.	"	7½	in.	"	2½	in.	"	"	2	70
28.—Iron,	1	in.	"	7½	in.	"	2½	in.	"	"	1	90
85.—Bronze,	1½	in.	"	7¾	in.	"	2½	in.	"	"	3	35
86.—Iron,	1½	in.	"	7¾	in.	"	2½	in.	"	"	1	90
29.—Bronze,	2	in.	"	8	in.	"	2¾	in.	"	"	4	00
30.—Iron,	2	in.	"	8	in.	"	2¾	in.	"	"	2	25
105.—Bronze,	3	in.	"	8	in.	"	2¾	in.	"	"	5	00
106.—Iron,	3	in.	"	8	in.	"	2¾	in.	"	"	3	50
107.—Bronze,	6	in.	"	8	in.	"	2¾	in.	"	"	9	00
108.—Iron,	6	in.	"	8	in.	"	2¾	in.	"	"	6	70

SPECIAL DESIGN OR RADIUS OF CURB TOOL TO ORDER.

Fig. 340½ INSIDE RADIUS CURB TOOL

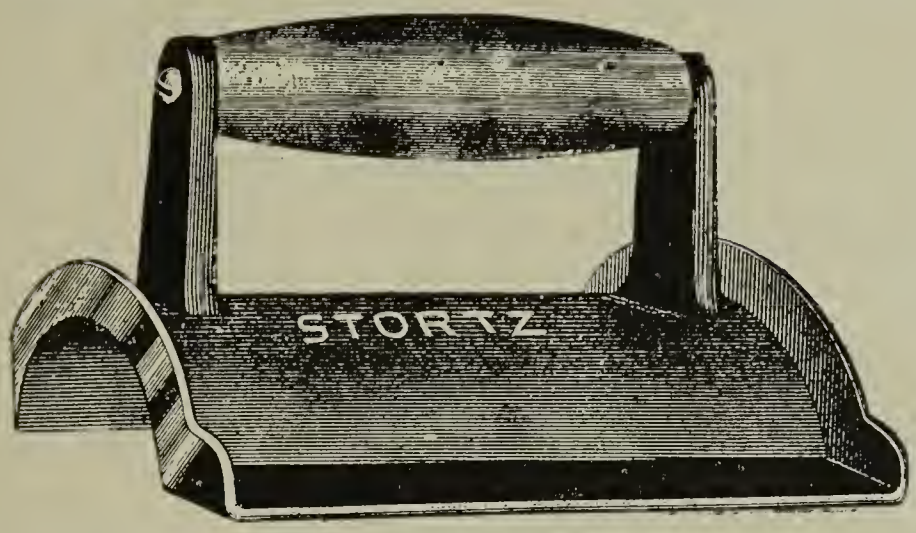


This Tool is essential in finishing the edges of concave curbs, steps, circular walks, etc., or any inside curves which cannot be done so very easily with the ordinary curb tool.

Bronze tools, polished; Iron tools, nickel-plated.

No. 183.—Bronze,	½	in.	radius,	7	in.	long,	2½	in.	wide	price,	$2	60
184.—Iron,	½	in.	"	7	in.	"	2½	in.	"	"	2	10
185.—Bronze,	1	in.	"	7½	in.	"	2½	in.	"	"	3	00
186.—Iron,	1	in.	"	7½	in.	"	2½	in.	"	"	2	50
187.—Bronze,	1½	in.	"	7½	in.	"	2½	in.	"	"	3	30
188.—Iron,	1½	in.	"	7½	in.	"	2½	in.	"	"	2	70
189.—Bronze,	2	in.	"	8	in.	"	2¾	in.	"	"	3	90
190.—Iron,	2	in.	"	8	in.	"	2¾	in.	"	"	3	00

Fig. 341 RESIDENCE CURB TOOLS

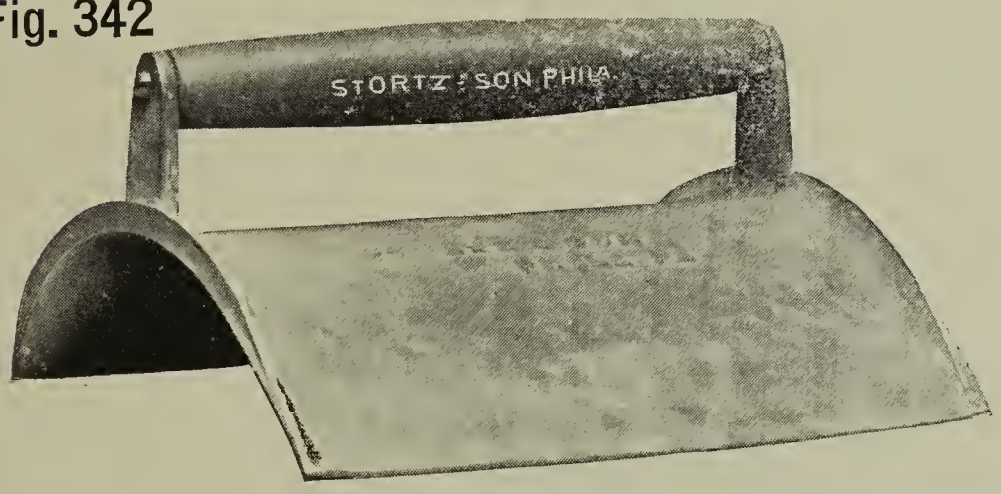


Residence Curb Tools are used to finish the top of curbs on the side of residence steps around walks or lawns, etc. They finish the curb in the shape of a roll 1¼, 2, 2¼ or 3 inches high, according to size of tool used. They are made of one piece, with a strong maple handle, which will not become loose or turn. A very useful tool.

Bronze tools, polished; Iron tools, nickel-plated.

No. 31.—Bronze,	1¼	in. high,	3½	in. wide	.....	price,	$2	90
32.—Iron,	1¼	in. "	3½	in. "	.....	"	2	10
33.—Bronze,	2¼	in. "	5¾	in. "	.....	"	3	75
34.—Iron,	2¼	in. "	5¾	in. "	.....	"	2	90
113.—Bronze,	2	in. "	4	in. "	.....	"	4	60
114.—Iron,	2	in. "	4	in. "	.....	"	2	90
115.—Bronze,	3	in. "	6	in. "	.....	"	5	80
116.—Iron,	3	in. "	6	in. "	.....	"	4	25

Fig. 342



COPING TOOL

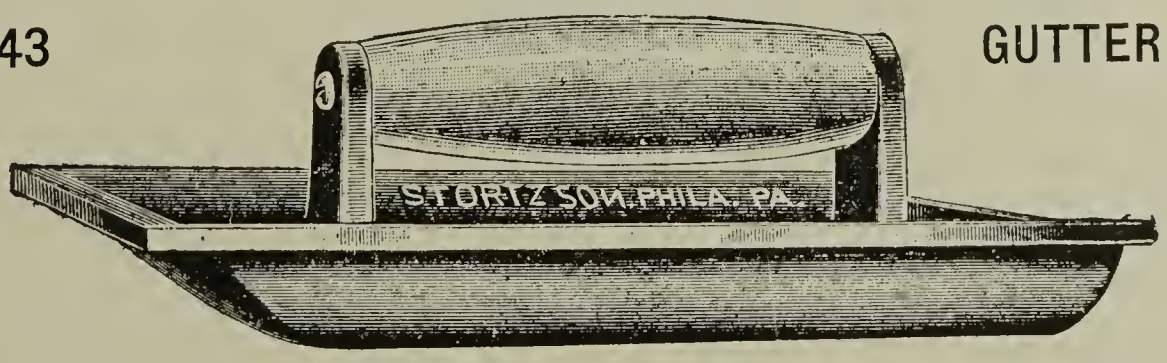
This tool is used to finish the tops of thick copings, curbs or walls. They make a flat roll finish, 1 or 1¾ inch high, according to tool used. It is made of one piece, with strong maple handle, that will not become loose.

Bronze tools, polished; Iron tools, nickel-plated.

No. 109.—Bronze,	1	in. high,	8	in. wide,	9 in. long	price,	$7	00
110.—Iron,	1	in. high,	8	in. wide,	9 in. long	"	5	00
111.—Bronze,	1¾	in. high,	10	in. wide,	9 in. long	"	8	00
112.—Iron,	1¾	in. high,	10	in. wide,	9 in. long	"	6	00

Special design or sizes of Residence Curb or Coping Tools to order.

Fig. 343



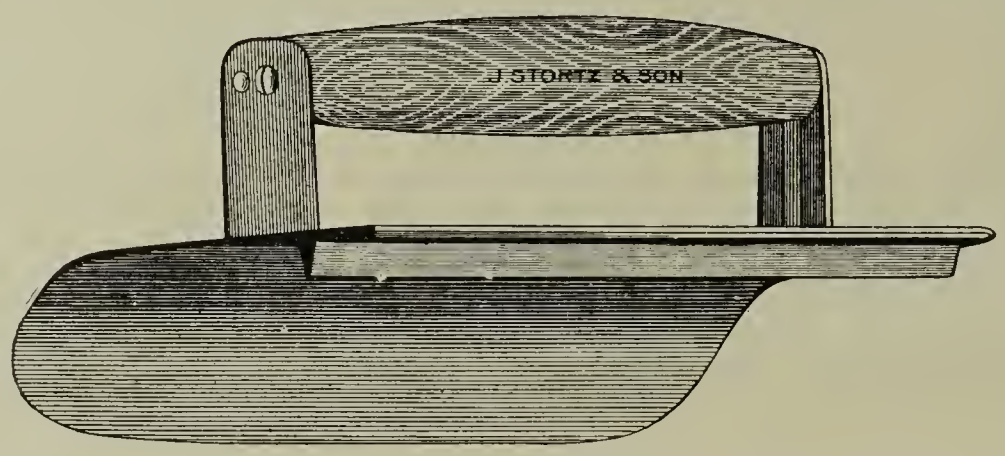
GUTTER TOOL

Gutter Tools are used in making and finishing the gutters to carry off water in walks, floors, pavements, etc. With their use neatly, well proportioned trenches are made, the cement well packed, preventing chipping, etc. A necessary tool for the purpose.

Bronze tools, polished; Iron tools, nickel-plated.

No. 37.—Bronze,	1	in. deep,	4½	in. wide,	7 in. long	price,	$4	00
38.—Iron,	1	in. deep,	4½	in. wide,	7 in. long	"	3	00
39.—Bronze,	1½	in. deep,	5¼	in. wide,	7 in. long	"	4	50
40.—Iron,	1½	in. deep,	5¼	in. wide,	7 in. long	"	3	50

Fig. 343 A CURB EDGER AND JOINTER

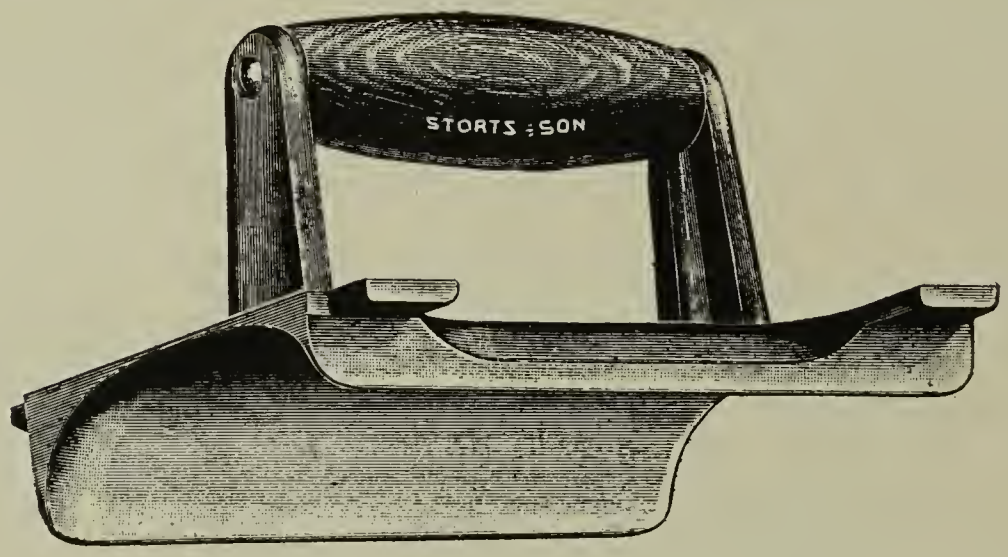


Used to finish the edge of a curb and make the joint between the curb and walk at one operation. A very useful, practical and time saving tool, made with 1 in. radius for curbs 4 and 6 in. wide.

Bronze tools, polished; Iron tools, nickel-plated.

No. 315—Bronze, 7½ in. long for 4-in. curb	price,	$3	50
316.—Iron, 7½ in. long for 4-in. curb	"	2	75
317.—Bronze, 7½ in. long for 6-in. curb	"	4	00
318.—Iron, 7½ in. long for 6-in. curb	"	3	00

Fig. 343 B DOUBLE RADIUS CURB TOOL



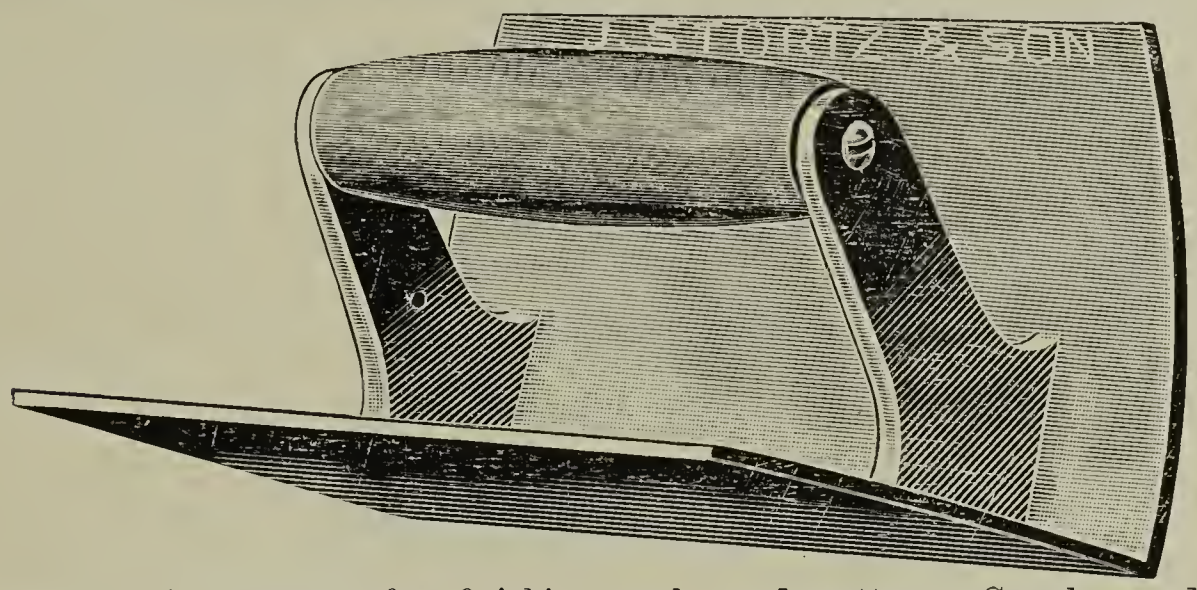
This tool is designed to finish the top and both edges of a curb in one operation. A great labor saver, and is used principally where the curb does not adjoin the walk.

They are made for 4 and 6 in. wide curbs. The inner edge has a ¾ in. radius, the outer edge 1½ in. radius.

Bronze too's, polished; Iron too'.s, nickel-plated.

No. 319.—Bronze, 4 in. wide, 7½ in. long	price,	$3	50
320.—Iron, 4 in. wide, 7½ in. long	"	2	00
321.—Bronze, 6 in. wide, 7½ in. long	"	5	00
322.—Iron, 6 in. wide, 7½ in. long	"	3	00

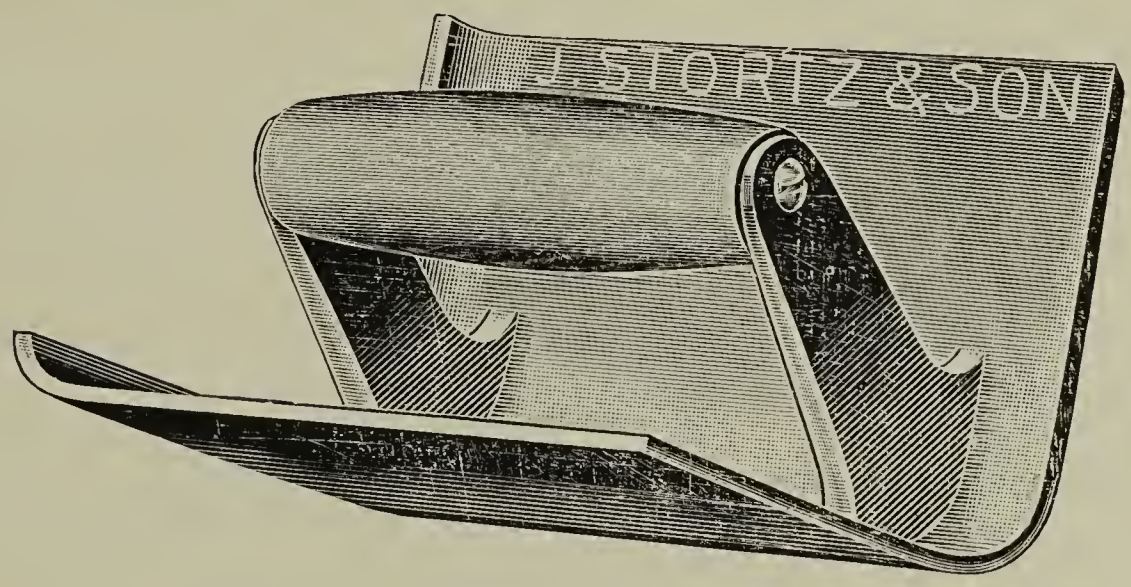
Fig. 343¼ CURB AND GUTTER TOOL—Sharp Angle



This tool is designed for finishing curbs and gutters. Can be used on inside angle of steps or where a sharp angle is required. 7½ in. long, 4 in. sides.

No. 191.—Bronze, polished ..... price, $4 25
192.—Iron, nickel-plated ..... " 2 75

Fig. 343½ CURB AND GUTTER TOOL—Round Angle



7½ in. long, 4 in. sides.

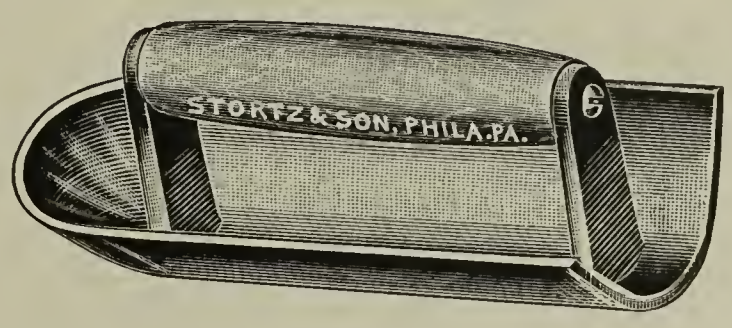
This tool is used for same purpose as Fig. 343¼, with ¾ in. radius, instead of sharp angle, and is therefore used for purposes where round angle is desired.

No. 193.—Bronze, po'ished ..... price, $4 25
194.—Iron, nickel-plated ..... " 2 75

Fig. 343¾ COMBINED GUTTER AND CURB TOOL

Is designed for making gutter grooves, also for the round curves on combined curbs and gutters. It is made slightly out of right angle and made in three radiuses, 1, 1½ and 2 in., having one round nose; it can be used to finish curved corners, grooved columns, etc. A very handy tool.

7½ in. long.



Bronze, Polished.

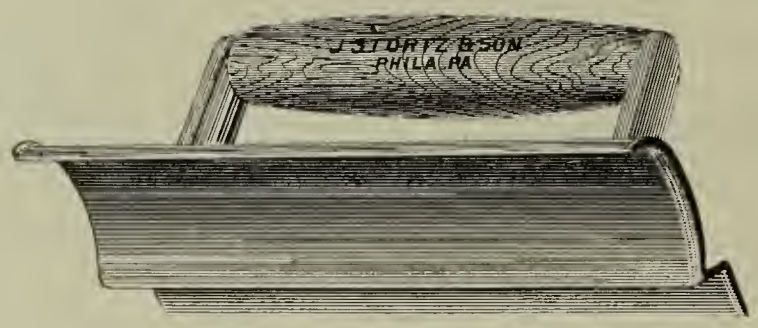
No. 301.—1 in. radius $2 75
303.—1½ in. " 3 25
305.—2 in. " 3 75

Iron, Nickel-plated.

No. 302.—1 in. radius $2 25
304.—1½ in. " 2 50
306.—2 in. " 3 00

Step Nosing tools are found to be a necessity in the tool box of the up-to-date cement worker, as with them the making of steps is greatly facilitated, each tread being exactly alike and beautifully finished.

Fig. 344 A STEP NOSING TOOL



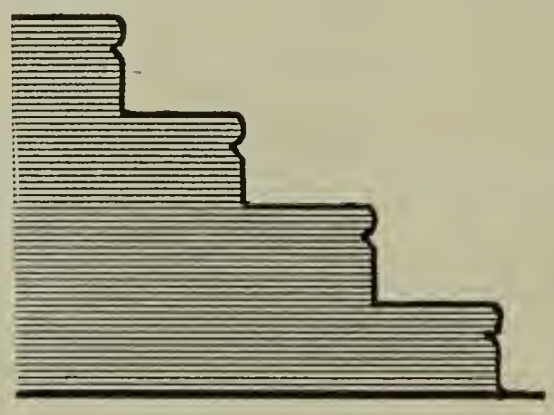
Nosing Tools are used to finish the nose or bead of the tread of steps, or for other ornamental purposes. They greatly facilitate this class of work, are therefore great labor savers, a useful and economical tool.

7 in. long, 4 in. wide for tread 2½ in. thick, ½ in. recess.

No. 155.—Bronze, polished ..... price, $4 00
156.—Iron, nickel-plated ..... " 3 00

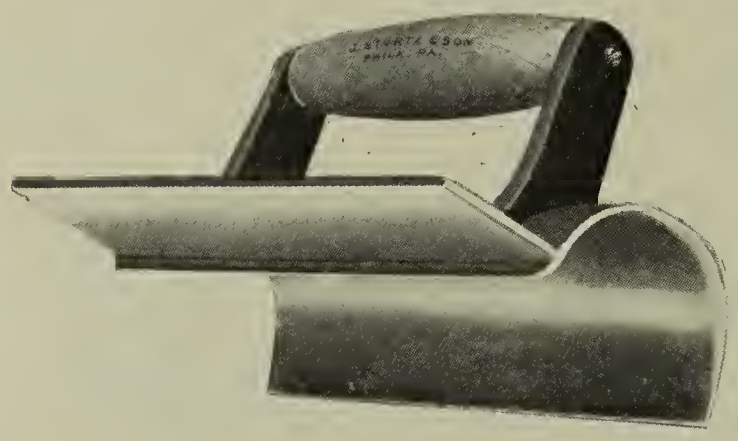
Fig. 344 B

Showing section of step made by Nosing Tool, Fig. 344 A.



NOSING TOOLS CAN BE MADE OF ANY SPECIAL DESIGN UPON RECEIPT OF SKETCH. PRICES UPON APPLICATION.

Fig. 344 C OVERHANGING NOSE PATTERN

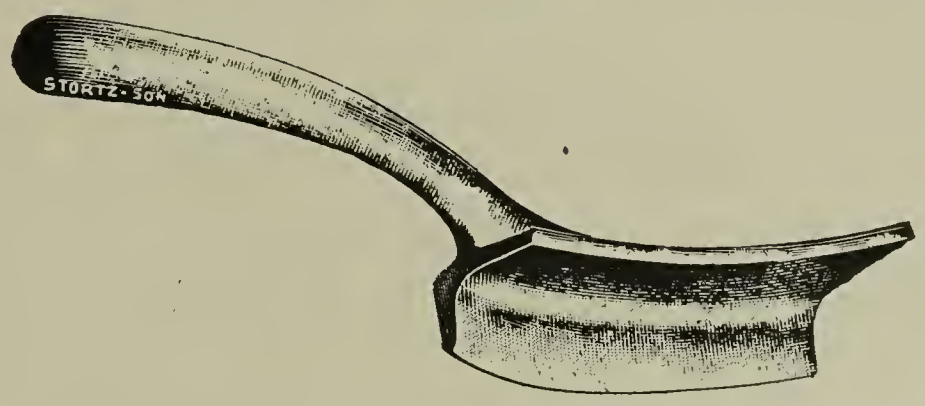


To meet the demand for an overhanging tread, we have designed the tool as shown. They also make a slight joint between the riser and tread. We carry them in stock for treads 1½ in., also 2½ in. thick.

Bronze tools, polished; Iron tools, nickel-plated.

No. 307.—Bronze, 7 in. long, nose 1½ in. wide ..... price, $4 00
308.—Iron, 7 in. long, nose 1½ in. wide ..... " 3 00
309.—Bronze, 7 in. long, nose 2½ in. wide ..... " 4 50
310.—Iron, 7 in. long, nose 2½ in. wide ..... " 3 50

Fig. 344 D WALL OR FENCE EDGER



Wall or Fence Edgers are used to turn and finish the joints close to the fence or wall of buildings; can also be used for other edging purposes.

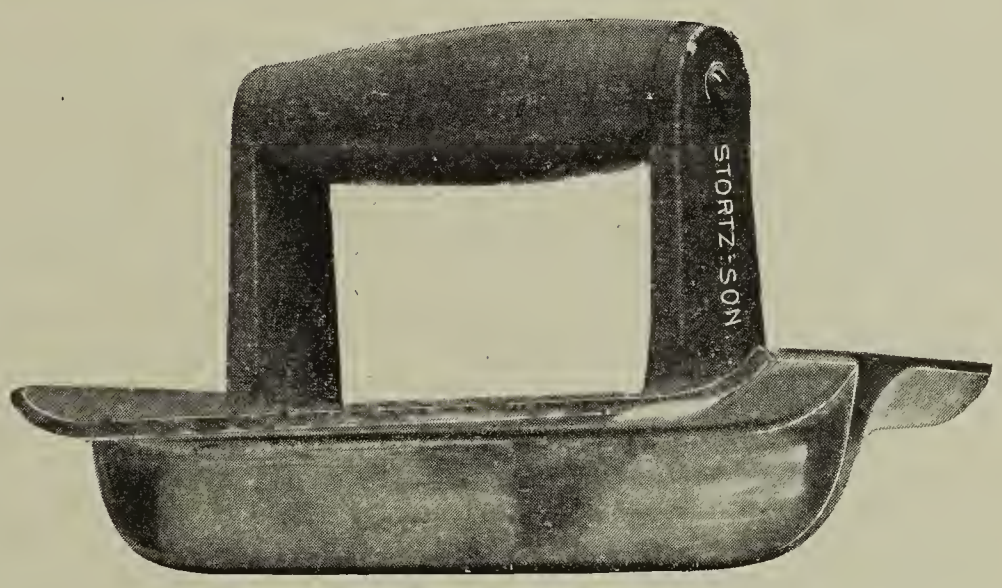
Made right and left hand. Cut shows left hand tool.

Bronze tools, polished; Iron tools, nickel-plated.

No. 157.—Bronze,	9 in. over all, 1½ in. wide, ⅜ in. radius	price,	$2 00
158.—Iron,	9 in. over all, 1½ in. wide, ⅜ in. radius	"	1 00
97.—Bronze,	9 in. over all, 1¾ in. wide, ¾ in. radius	"	2 00
98.—Iron,	9 in. over all, 1¾ in. wide, ¾ in. radius	"	1 00

Fig. 344 COMBINATION EDGER AND CURB TOOL

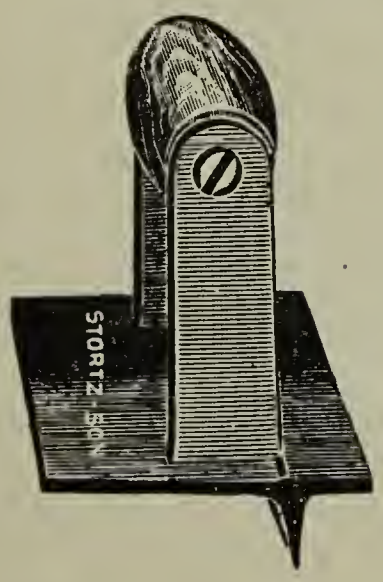
This is our latest improved combination tool. The one side can be used as a curb tool to form a round edge, and the other as a guide or edger to form a sharp edge, as can be seen by the cut, making two tools in one. A tool appreciated by all who have used it.



7 in. long, 2¾ in wide

No. 119.—Bronze, polished		price,	$3 00
120.—Iron, nickel-plated		"	2 50

Fig. 344¼ CEMENT BLOCK MACHINE EDGER

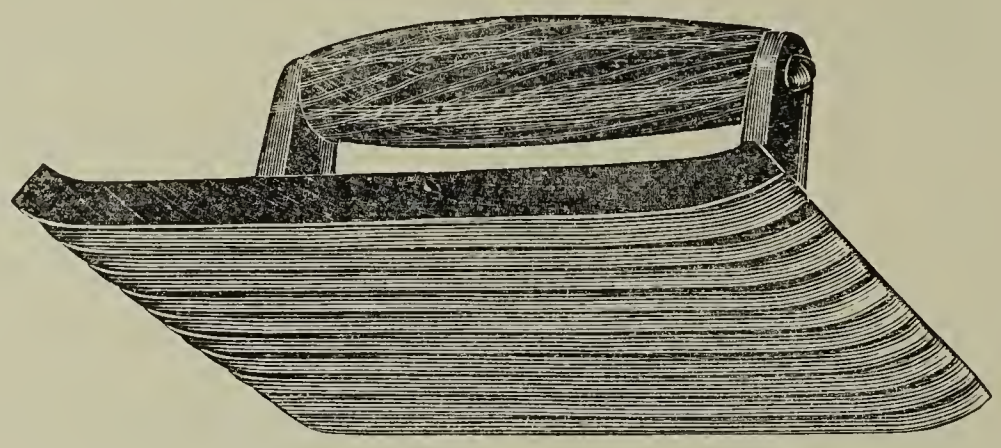


Used for making beveled edges, etc., while still in the machine.

7 in. long, with 2 in. using surface; blade cuts 9/16 in. deep. Gauge is ¼ in. wide and is raised 1/16 in. above using surface.

No. 195.—Bronze, polished		price,	$2 25
196.—Iron, nickel-plated		"	1 70

Fig. 344½ BEADING OR CORRUGATING TOOL

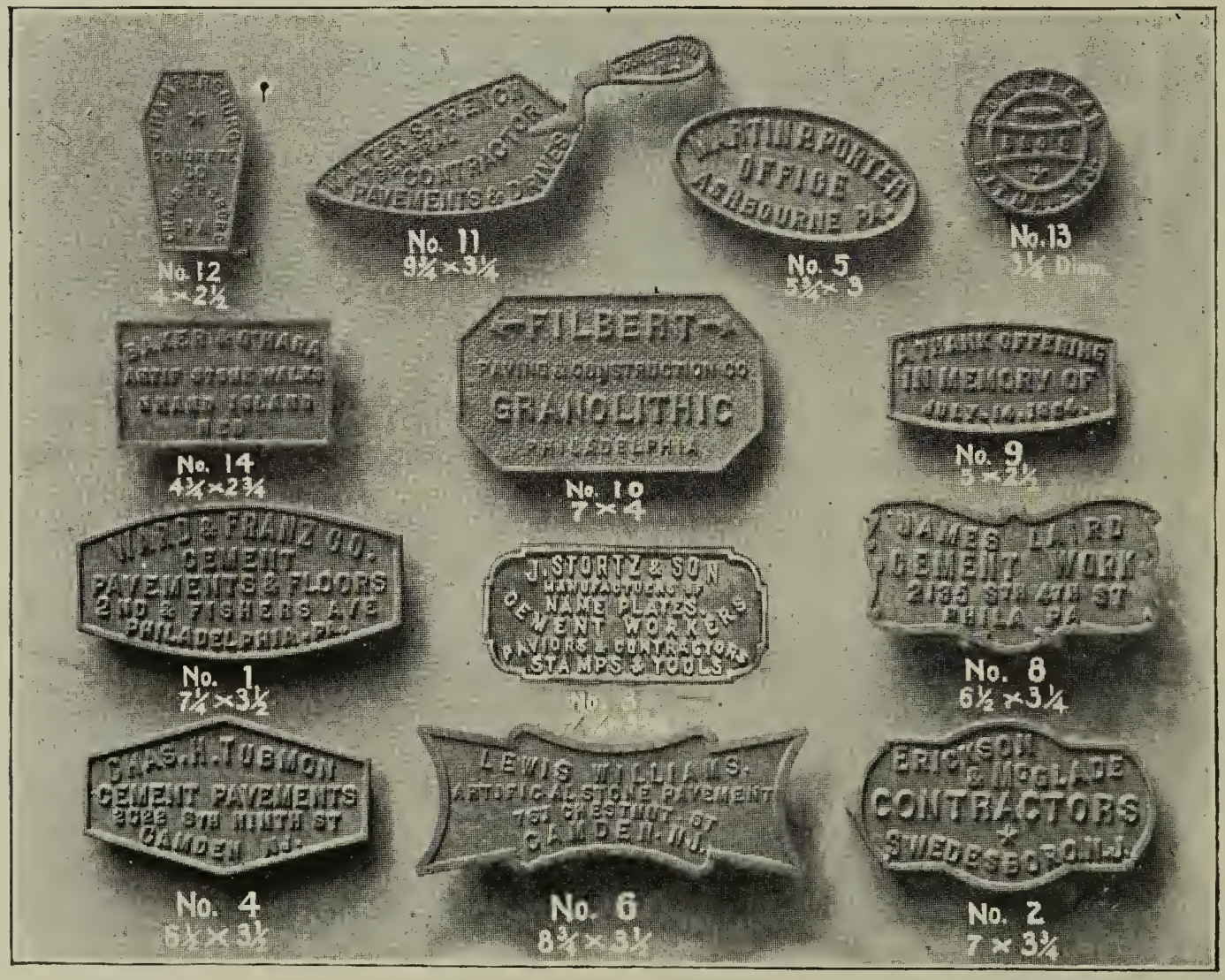


This is our latest designed tool, and is found a very useful and necessary tool when a rough-beaded or corrugated surface is required as in driveways, stable floors, etc. 7 in. long, 5 in. wide, makes beads ½ in. wide, 3/16 in. high.

No. 47.—Bronze, polished ..... price, $4 50
48.—Iron, nickel-plated ..... " 3 00

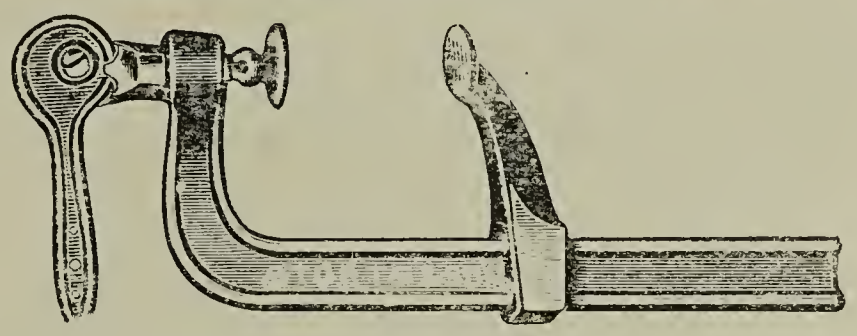
NAME PLATES

We make a specialty of Name Plates—Bronze or Iron.



Name plates inserted in pavements or other work are a standing advertisement for the contractor or paver. They are made with lugs to assure a firm hold in the cement. The above cut shows a few of our designs. When ordering order by number. Prices on application. Will submit other designs if desired or quote on original design or sketch.

ADJUSTABLE CURB CLAMP

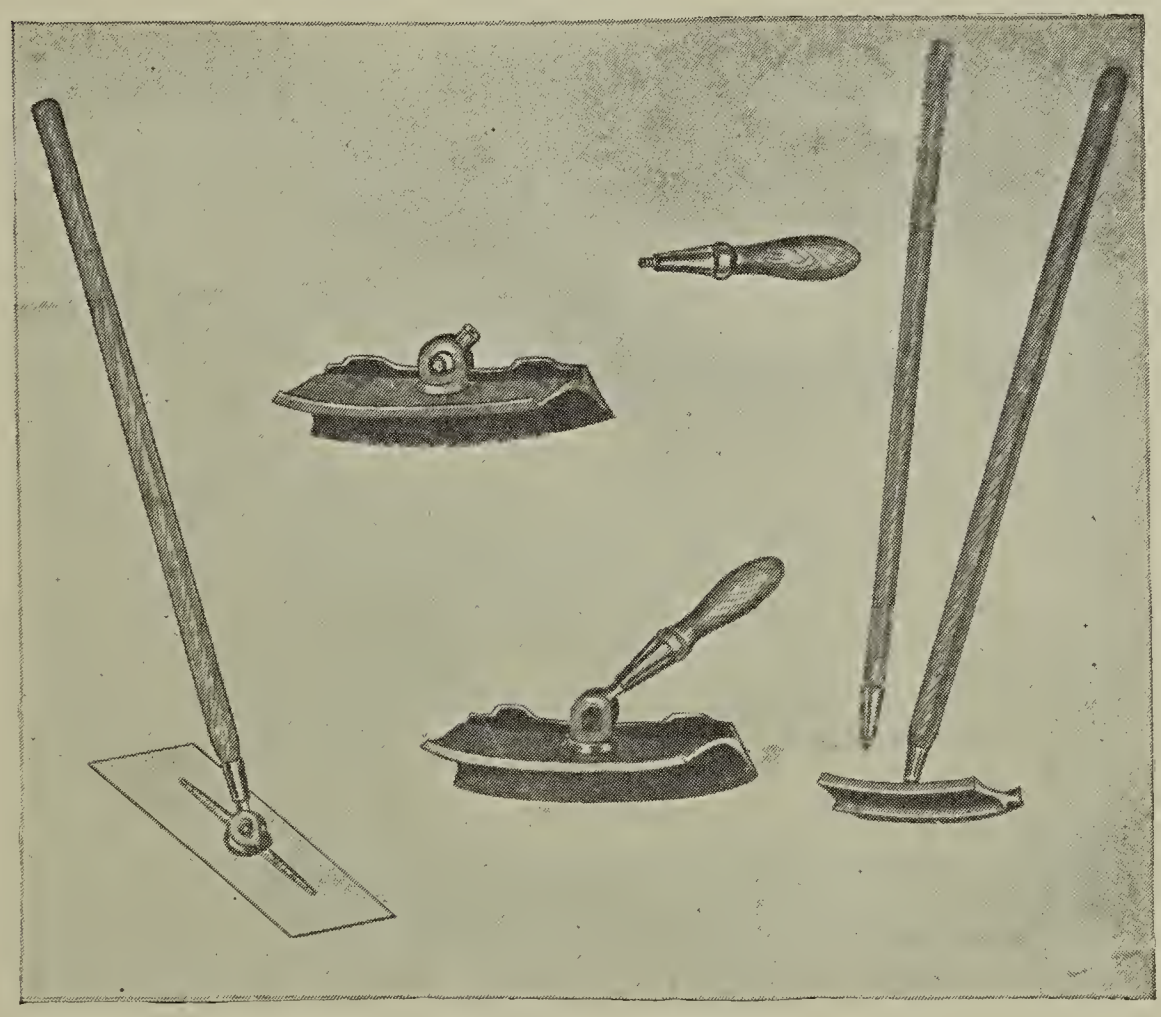


A time saver. For holding curb forms in place. Immediately adjusted by the eccentric. Sure grip. Superior annealed iron.

No. 96.—18 in. long ..... $18 00 dozen

Fig. 344¾

STORTZ & SON
LONG HANDLE BALL BEARING CEMENT TOOLS



PATENT PENDING.

A turn of the handle loosens the tool so that it can be turned completely around if need be, and the handle can be raised and lowered to any angle desired. See cut. A turn of the handle securely tightens the handle and tool.

No wrench, no spanner, no screwdriver, to mislay and look for, is required.

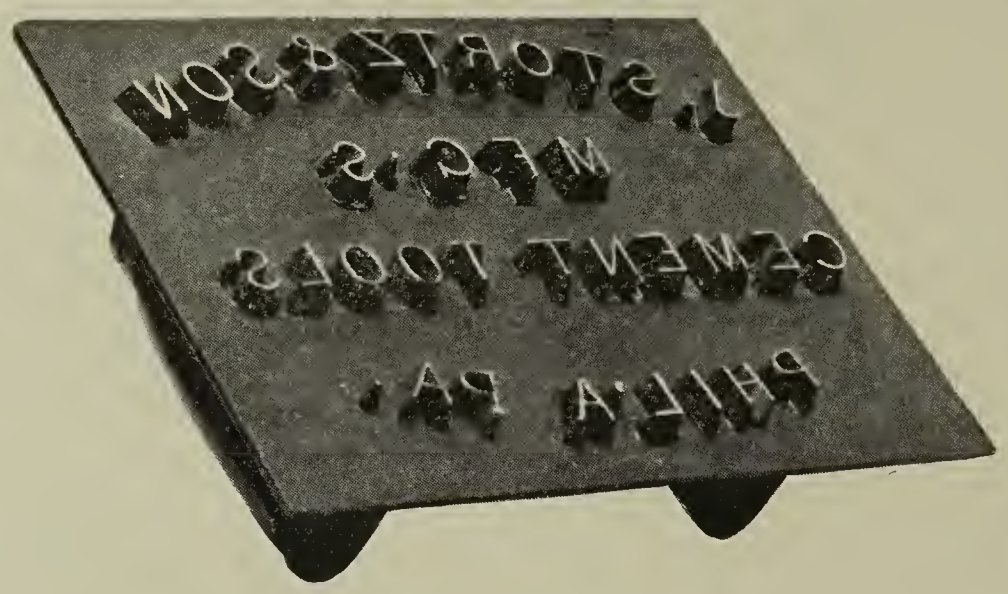
These tools were especially invented to supply long handled cement tools with a reliable, handy adjustable fastening, for the cement worker who does not wish to finish his work stooping or on his knees, but prefers to do his finishing in a standing position.

They can be used as short handle tools if desired. See cut.

Set, consisting of Trowel, Jointer and Edger, with two long and one short handle $20 00

Single tools furnished. Any or all of our short handle tools will be furnished for long handles, if desired, at a slight advance to short handle prices.

Fig. 345 NAME STAMPS



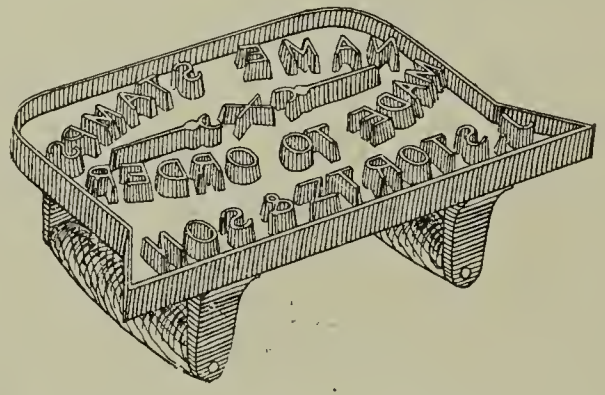
This tool is used by pavers to brand or stamp their work, and pays its cost many times over as an advertising medium. It is pressed into the pavement before it is set or thoroughly dry. Above cut shows stamp without border.

It is made in one piece, with two strong handles to secure a good even pressure while using. Sharp well raised letters.

Size of letters usually used, ⅝ or ¾ inch.

No. 49.—6 x 8½ inches, 20 letters or less .....Iron, $5 50; Bronze, $8 50
75.—8 x 10½ inches, 20 letters or less .....Iron, 6 50; Bronze, 9 50
Each additional Letter .....Iron, 20; Bronze, 30

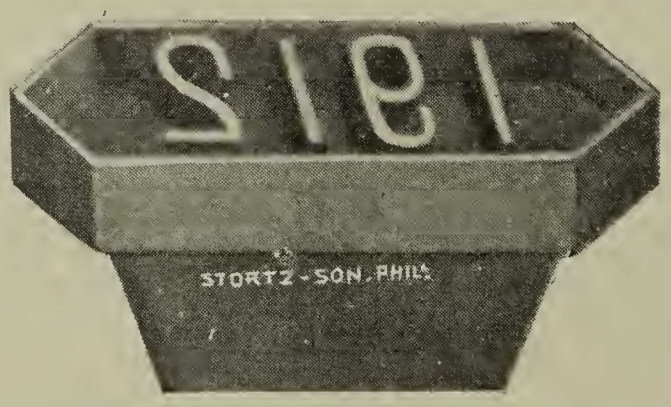
Fig. 345¼ WITH BORDER



The above cut shows a Stamp with an edging or border around it. Stamps can be made with or without border as desired. Stamps with border $1.00 additional.

Stamps of special designs made to order. Send sketch or description for price.

Fig. 345½ DATE STAMP



For stamping date in cement work. 1-in. figures.

No. 80.—Iron, polished .....price, $1 00
81.—Bronze, polished ..... " 1 50

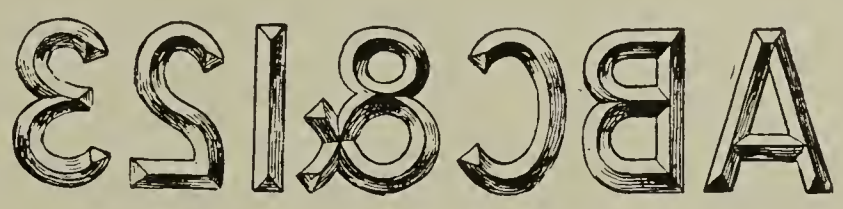
Fig. 345¾ BRASS AND IRON LETTERS

These letters are used for the same purpose as name plates, to be embedded in pavements, etc.; are made with lugs to prevent them becoming loose and assure a firm hold.

		Iron	Brass
2 in. letters	each,	$0 30	$0 60
3-in. letters	"	40	75
4-in. letters	"	50	1 00
6-in. letters	"	60	1 40
8-in. letters	"	75	1 75

Other sizes or special designs of letters made to order.

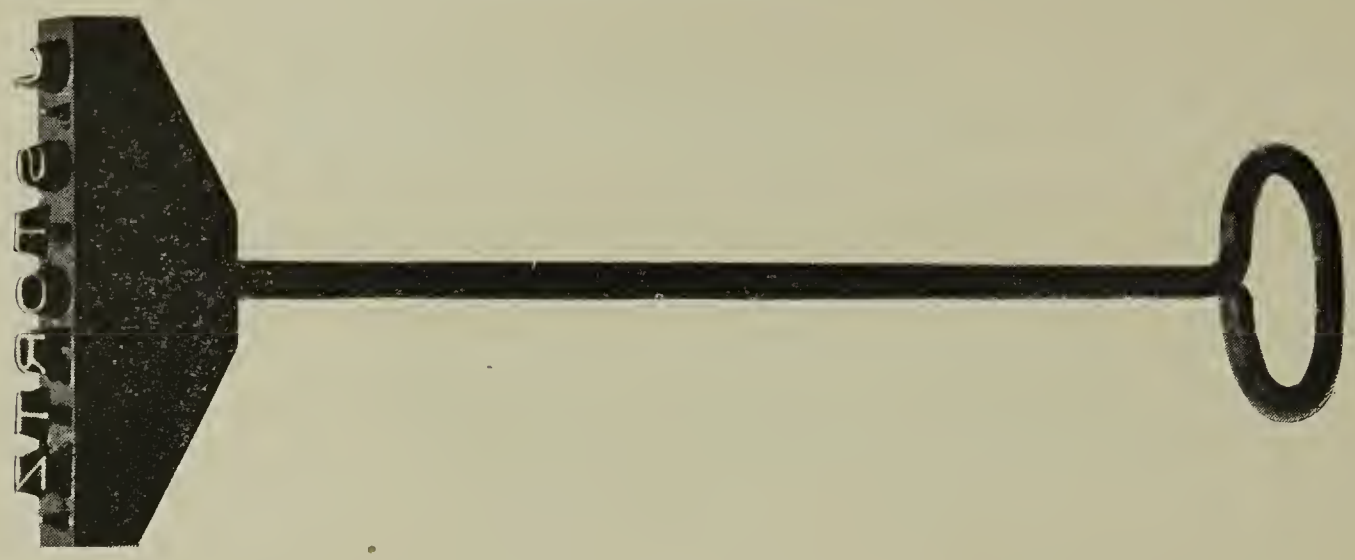
Fig. 346 ALPHABET AND FIGURES



Made of Brass or Iron, are well finished. Can be pressed or tamped into the cement. With a set of alphabets and figures any name and number can be impressed.

			Brass	Iron
Alphabet,	1	inches high, A to Z, per set,	$5 50	$4 00
	1¼	inches high, A to Z, "	6 00	5 00
	1½	inches high, A to Z, "	6 75	6 00
	2	inches high, A to Z, "	7 50	6 75
	3	inches high, A to Z, "	11 00	7 50
	4	inches high, A to Z, "	15 00	11 00
	6	inches high, A to Z, "	22 00	15 00
Figures,	1	inches high, 0 to 9, "	2 00	1 75
	1¼	inches high, 0 to 9, "	2 25	2 00
	1½	inches high, 0 to 9, "	2 25	2 00
	2	inches high, 0 to 9, "	2 50	2 25
	3	inches high, 0 to 9, "	3 75	2 50
	4	inches high, 0 to 9, "	5 00	3 75
	6	inches high, 0 to 9, "	7 50	5 00

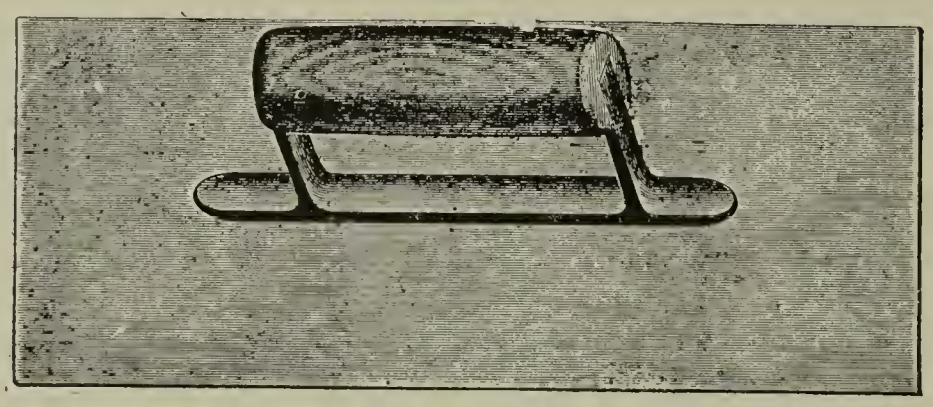
Fig. 346½ BURNING BRANDS



For burning names on wheelbarrows, shovels, picks and handles of tools generally. The use of a Burning Brand prevents the loss of many tools. Made with sharp faced letters.

No. 56.—¼ or ⅜ inch letters, 6 letters or less	$1 10
Each additional letter	15
57.—½ inch letters, 5 letters or less	1 10
Each additional letter	20
58.—¾ inch letters, 3 letters	1 10
Each additional letter	35
59.—1 inch letters, 3 letters	1 60
Each additional letter	45
60.—⅝ inch letters, 4 letters or less	1 10
Each additional letter	25

Fig. 347 SMOOTHING TROWEL

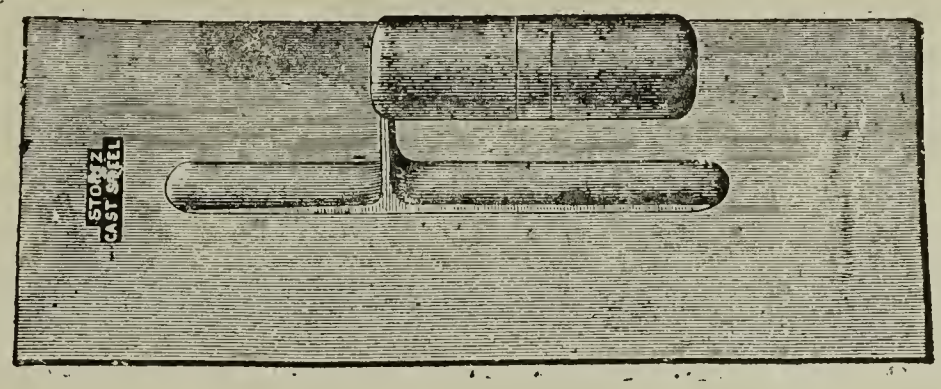


This arched handle, Smoothing Trowel or Steel Float, is made especially for cement work. It is made of the best quality of steel, carefully hardened and tempered, and ground convex on the working face.

The advantage of the arched handle frame is the increased strength and equal balance, combined with flexibility and lightness, making it the Trowel for cement workers' use.

No. 87.—10 inch	per dozen,	$17 00
12 inch	"	21 00

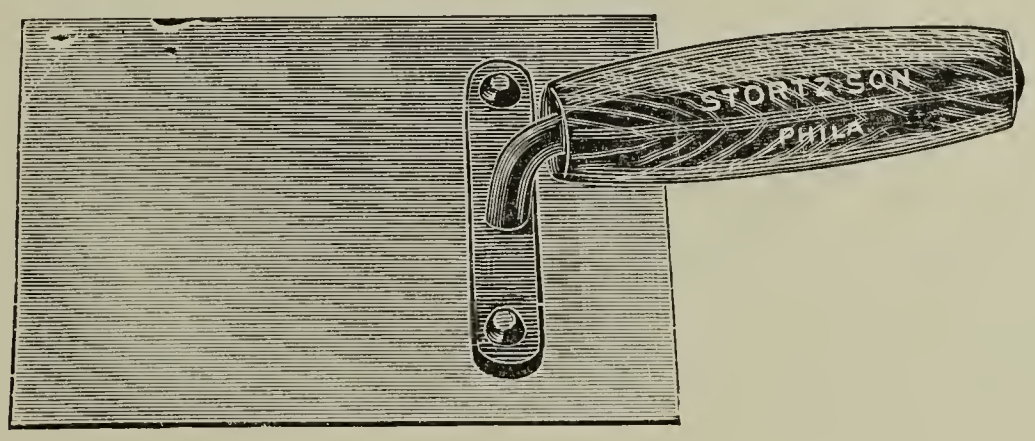
Fig. 348 SMOOTHING TROWEL



This trowel is used to smooth and finish the pavements, floors, etc. Made of good crucible steel, well finished, and a reliable tool.

No. 51.—10 inches	per dozen,	$12 00
12 inches	"	14 00
No. 52.—Best, 10 inches	"	20 00
Best, 11 inches	"	24 00

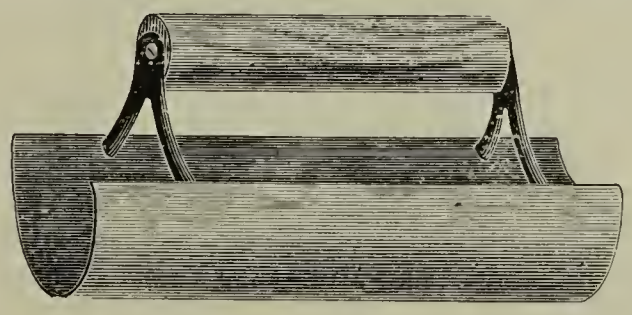
Fig. 349 SMOOTHING TROWEL



This is our latest smoothing trowel. It is made with the brace of the tang across, and set well back on the blade, allowing more elasticity to the blade than the regular patterns of smoothing trowels; on the principle of a brick trowel with blade as shown. Made of highest grade of trowel steel; neat, light and very handy.

No. 198.—4¼ x 5¼ in. .....per dozen, $12 00

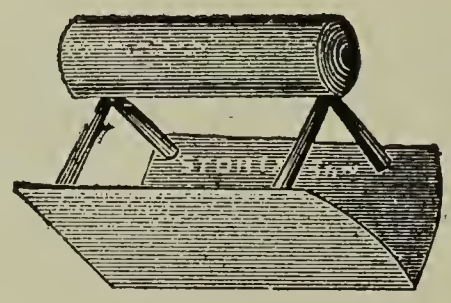
Fig. 349½ INSIDE CIRCLE OR COVE TROWELS



These trowels are made of the best grade of tempered trowel steel, and are used to finish coves, inner circles, curves, flutings, etc. They can be furnished of any desired radius.

No. 52.—2 in. radius, 4 in. across top .....price, $2 00

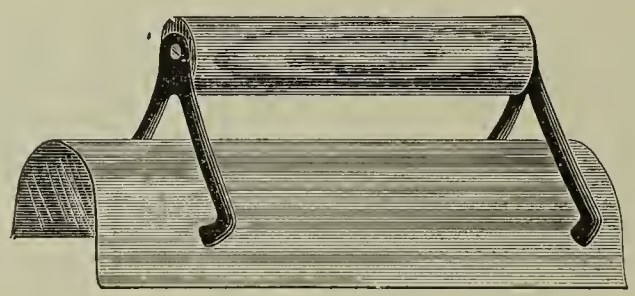
Fig. 350 ANGLE TROWEL



This angle or inside corner trowel is used to finish the inner angles of steps or copings, etc.

No. 50.—6 in. long, 2¾ in. sides .....per dozen, $14 00

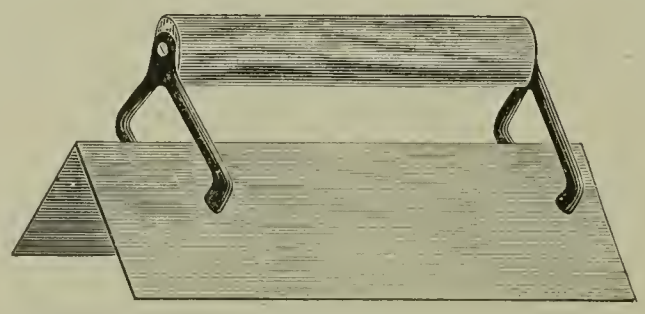
Fig. 350½ OUTSIDE CIRCLE TROWELS



These trowels are of the same quality as figure 349½, but are used to finish pillars, circular projections, outside circles, etc.

No. 53.—2 in. radius, 4 in. across bottom .....price, $2 00

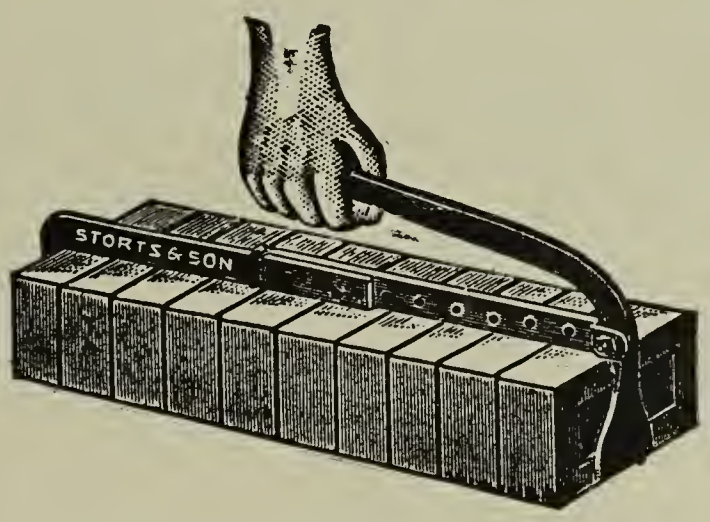
Fig. 350¾ OUTSIDE ANGLE TROWEL



These trowels are of the same grade as figure 349½ and are used to finish the outer angles and corners of steps, copings, etc.

No. 54.—6 in. long, 2¾ in. sides .....price, $2 00

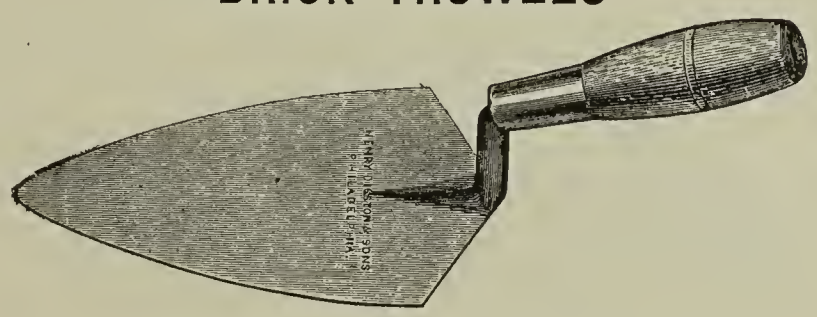
Fig. 350 A CEMENT BLOCK OR BRICK HANDLERS



A handy, useful tool. Will hold ten regular bricks; adjustable to carry a smaller number. Strong and light.

No. 82 .....price, $5 00

Fig. 351 BRICK TROWELS



For carrying and leveling the cement. They are made of the best quality tool steel, solid shank, spring tempered and accurately ground.

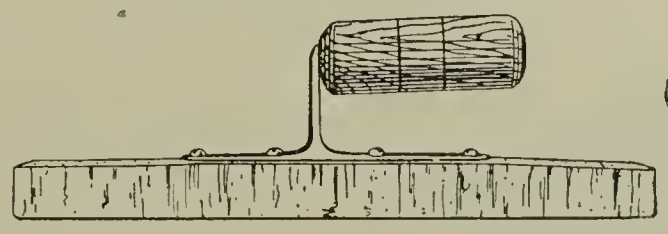
No. 139.—10 inches .....per dozen, $18 00
140.—10½ inches ..... " 20 00

Fig. 351¼ POINTING TROWELS

These trowels are especially useful to finish work around corners, inlets, etc.

No. 141.—5 inches .....per dozen, $8 00
142.—6 inches ..... " 10 00

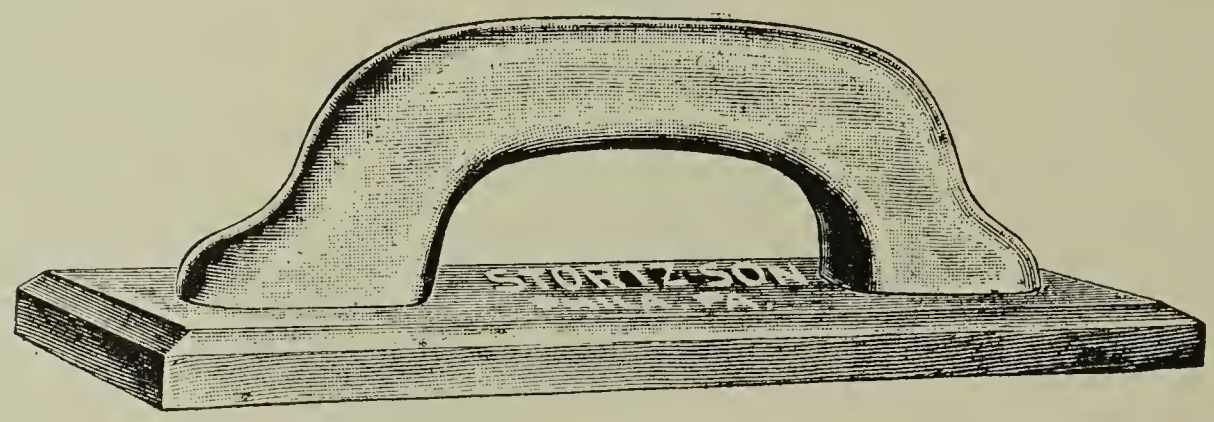
Fig. 351½ CORK FLOATS



Made of solid cork. A tool for extra fine work, where best results must be had.

No. 230.—5 x 12 x 1 in. .....price, $2 00

Fig. 351¾ FLOATS



This float is used with a smoothing trowel to float or smooth the topping. It is made of selected oak or pine.

No. 229.—⅞ x 4½ x 11½ in. .....per dozen, $5 00

Fig. 351 A ALUMINUM FLOATS

Corrugated and smooth face. The lightest floats made. An ideal tool.

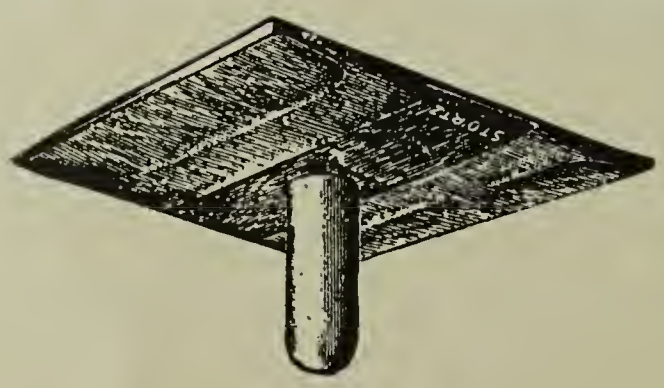
No. 249.—Corrugated both ways, 10 in. long, 4 in. wide .....price, $2 00
250.—Smooth face, 12 in. long, 4½ in. wide ..... " 2 00

Fig. 351 B PLASTERERS' DARBY

Made of white pine. Tight handles.

½ in. thick, 3½ in. wide, 42 in. long .....per dozen, $6 00

Fig. 351 C PLASTERERS' HOCKS



Best white pine water-proofed; will not warp.

13 in. x 13 in.

Per doz.

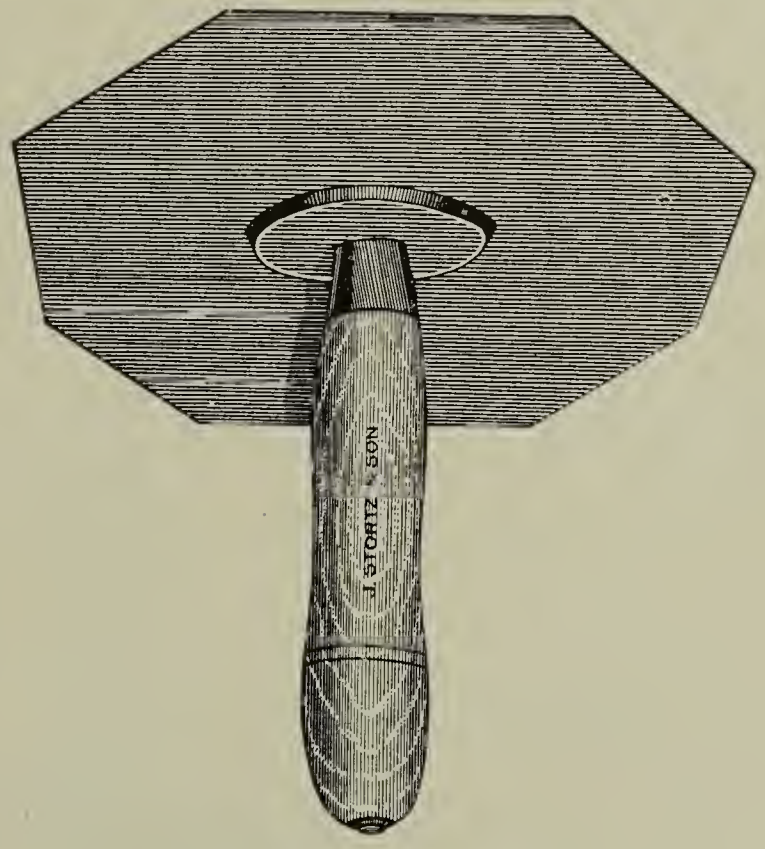
No. 252.—Tight handles $13 00
253.—Pat. removable handles 16 00

Fig. 351 D ALUMINUM HOCKS

Light and tough.

Light, strong, durable. Strongly reinforced with large plate under the handles. Detachable hardwood handles, requiring little room in tool kit.
No. 254.—13 x 13 in. .....price, $2 80

Fig. 351 E STEEL PLATE HOCKS



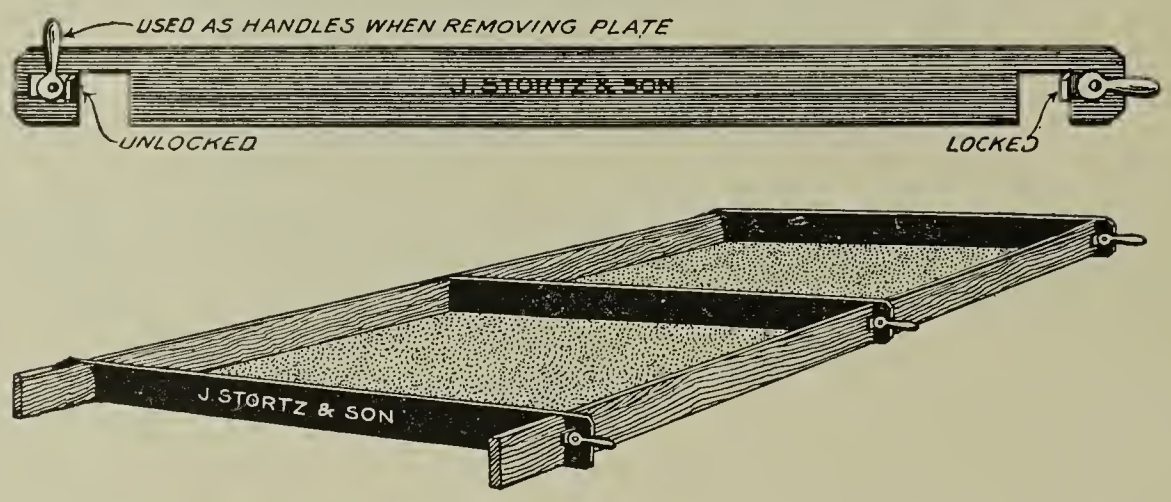
Octagon steel blades.

These Hocks are made with a light steel octagon shaped blade, with a large plate, as shown in the cut, under the handle, firmly riveted to the blade, making them strong, light and very durable.

They can be furnished with leather guard between the plate and handle to protect the hand from cold and dampness. Hard maple handles.

No. 257.—11 in. .....per dozen, $20 00

Fig. 352 A
STORTZ & SON EXPANSION JOINT PLATES AND FORM HOLDERS



Perfect alignment, true expansion joints; no time wasted in setting forms; durable time and money savers; will pay their costs in a short time.

Note.—The lower cut illustrates the form and expansion joint plates set ready to fill in, and explains itself. Any number of plates can be used. The plates being set level with the top of the forms, there is no obstruction for strike off or floating. No stakes to be made or lumber wasted to hold the forms. A turn of the handle locks and unlocks the plates. No wedges, keys or hammers to get mislaid. No obstruction of any kind. Will last a lifetime.

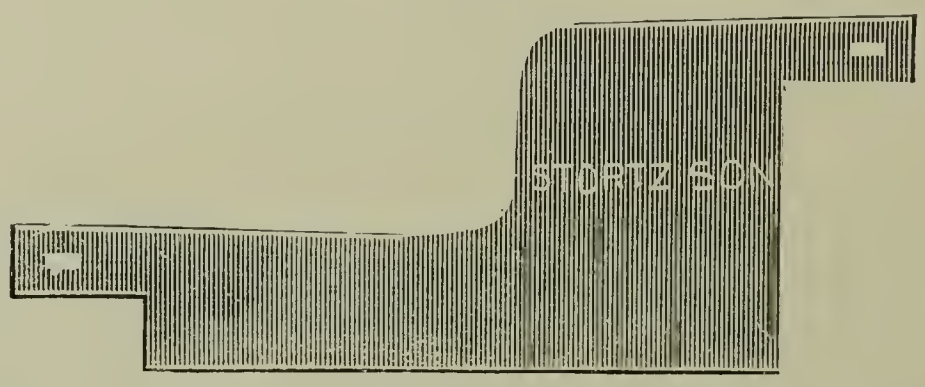
The upper cut shows the expansion joint plate; on the right is shown the lever drawn down, forcing the lock forward as against the form when locked; the left hand shows the lever thrown up, opening the lock on the forms, and can be used as handles when removing the plates. When the blocks are completed the expansion plates can be removed and are ready for use in another section of the walk, Six plates make a set, that number being what a gang of six or eight men can use to the best advantage. The plates, however, are sold in any number.

Steel, 4 in. wide, ¼ in. thick.

Stock sizes, for making a walk 3 ft. wide	price each,	$1 20
Stock sizes, for making a walk 4 ft. wide	"	1 50
Stock sizes, for making a walk 5 ft. wide	"	1 75
Stock sizes, for making a walk 6 ft. wide	"	2 00
Stock sizes, for making a walk 8 ft. wide	"	2 50

Price on other widths quoted on application. Plates are furnished for 2 x 4 in. rails unless otherwise specified. Other sizes will be furnished at the same prices upon order.

Fig. 352 B GUTTER TEMPLATES



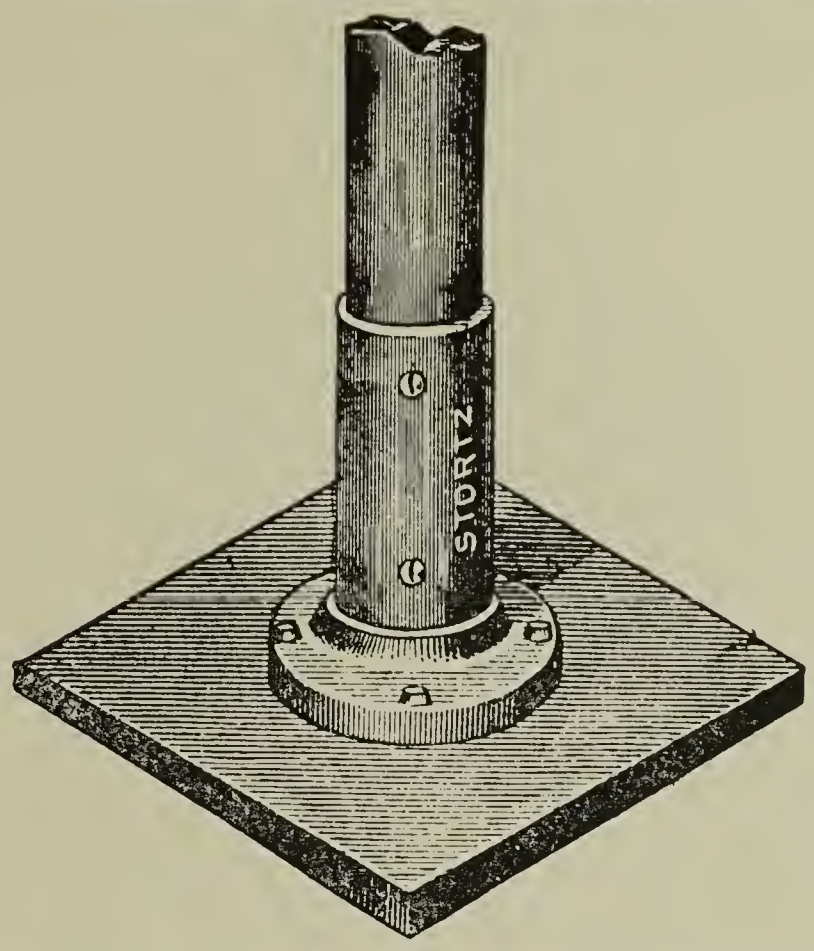
Upon receipt of sketch showing requirements in curb or gutter templates we will quote prices.

TAMPER HANDLES

Extra Hard Wood, 48 in. long .....per dozen, $5 00
For Figures 352, 357, 358.

Fig. 352

STEEL CONCRETE TAMPERS

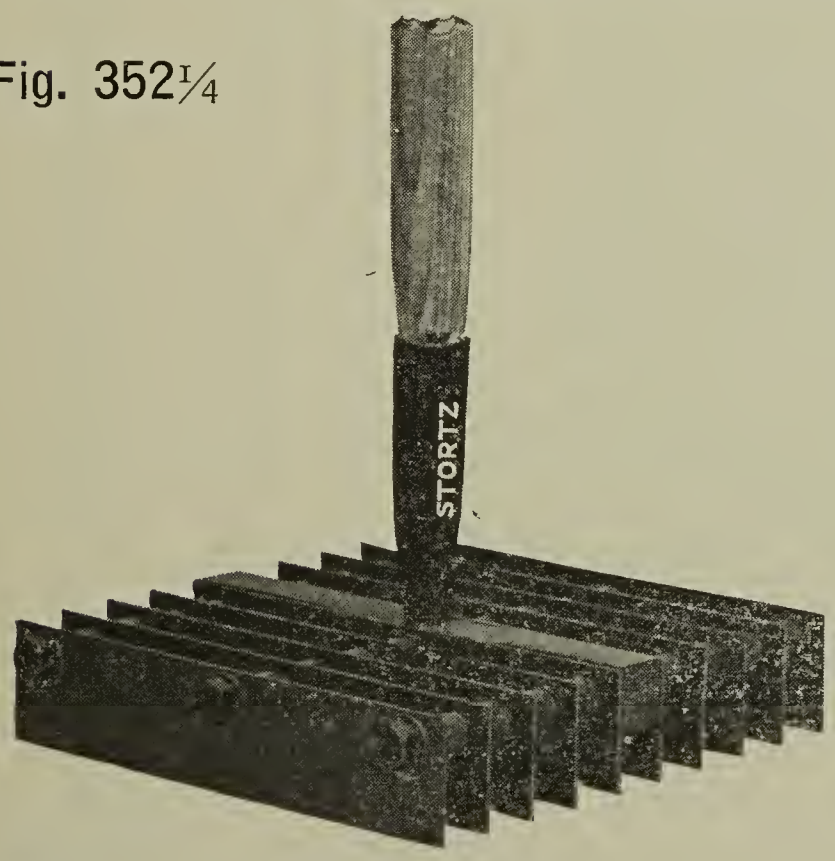


These Tampers are made of heavy rolled steel plates, with malleable iron sockets, securely riveted to the plate with extra heavy rivets, making the most durable Tamper in use. The sockets have lugs on the inside to prevent the handle from becoming loose. Heavy straight-grained 4-foot handles.

No. 333.— 8x 8, 18 lbs. .....Price, $3 50
334.—10x10, 22 lbs. ..... " 4 00
335.—12x12, 30 lbs. ..... " 4 50

Pipe Handles advance 50c. each.

Fig. 352¼



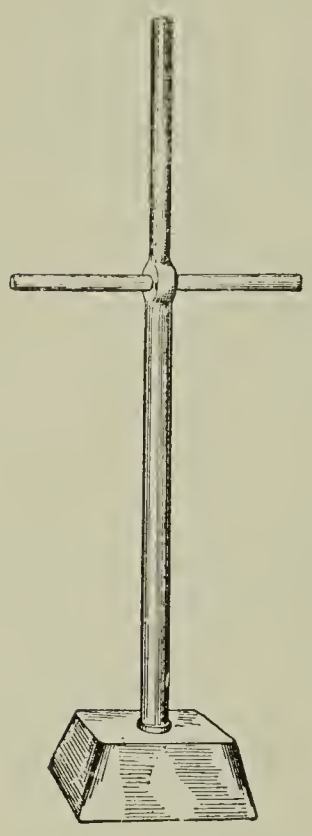
SLUSHING TAMPER

Are used before spreading the top coating, to tamp the coarse stone from the surface, bringing the mortar to the top, making a perfect adhesion of the top and bottom coats, thereby assuring freedom from cracks.

No. 347—10 steel blades, 2 in. wide, ⅛ in. thick. Heavy 4 ft. ash handle.

Can be made any size desired.

Regular size, 10 x 10 in. .....price, $9 00



TWO-MAN TAMPER

Fig. 352½

7½ in. square, weighs 55 pounds with iron handle, and arranged to be used by two men. A superior tool for tamping foundations.

No. 138 .....each, $7 00

HAND TAMPER

Fig. 352¾

For bench and mould work or close quarters, where long-handled Tampers cannot be used.

No. 197.—9½ in. long...each, $0 85

Fig. 353

Fig. 354

PIPE HANDLE TAMPERS

Used for the same purpose as other Tampers, but have pipe handles cast into the shoes, so as not to burn off when heating, as for asphalt, etc., likewise for general heavy work.

Fig. 353

No. 130.—4½x9, weight 25 lbs. .....price, $3 50
131.—5 x7, weight 20 lbs. ..... " 3 25

Fig. 354

No. 132.—6 in., weight 20 lbs. .....price, $3 25

Fig. 355 CAST IRON CONCRETE TAMPERS

For use in a narrow space, or where light tamping is required; 4½ ft. hickory handle.

No. 337, 1 x 3½ in., 6 lbs. .....price, $1 00

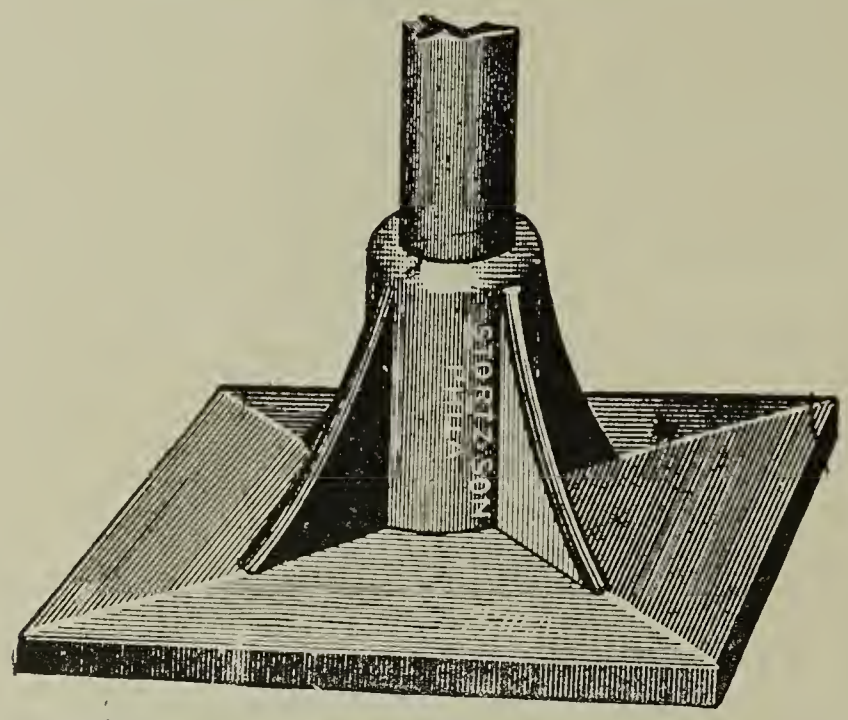
All Tampers can be furnished with pipe or wood handles. Special sizes or weights made to order.

Fig. 356 CAST IRON TAMPERS

Used for the same purpose as No. 337.

No. 338.—4 x 4 in., 10 lbs. .....price, $1 50
Extra Handles for No. 337 and No. 338 .....per dozen, 3 25

Fig. 357 CAST IRON TAMPERS

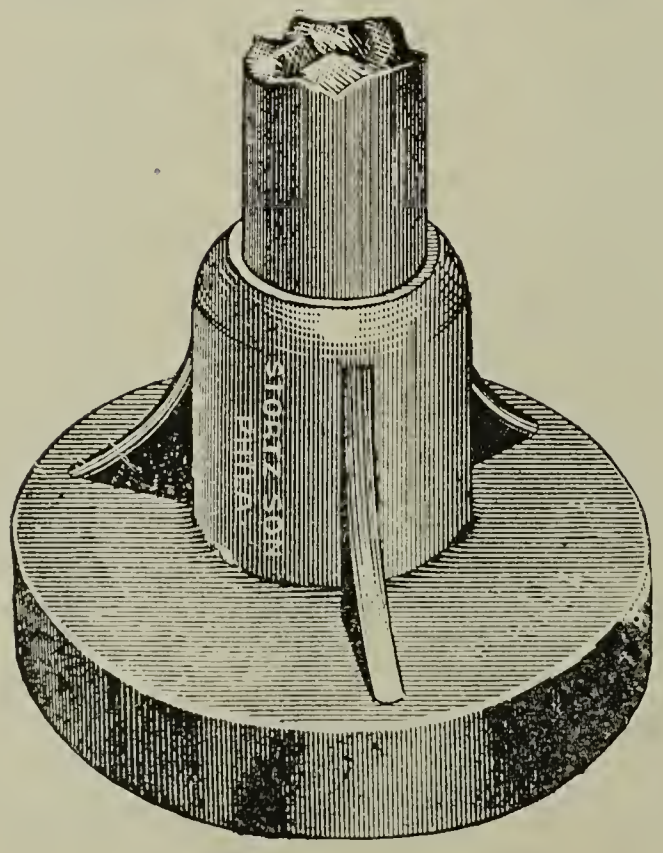


For general use in tamping dirt, cinders, concrete. etc.; is made of one piece of iron, with strong 4-foot handles. Sockets of one size, so that the handles are interchangeable.

No. 338½.—5 x5 in., 12 lbs.	price,	$2	00
339 .—3½x6½ in., 13 lbs.	"	2	00
340 .—6 x8 in., 17 lbs.	"	2	50
340½.—8 x8 in., 20 lbs.	"	2	75
341 .—8 x10 in., 25 lbs.	"	3	25

Pipe Handles advance 50c. each.

Fig. 358 DIRT TAMPERS



Dirt Tampers, for the same purpose as the cast iron Tampers, are cast in one solid piece; handles same grade and size, also interchangeable.

No. 343.—4-in. diam., 12 lbs.	price,	$2	00
344.—6-in. dia., 18 lbs.	"	2	50
345.—7-in. dia., 23 lbs.	"	3	00
346.—8-in. dia., 28 lbs.	"	3	50

Pipe Handles advance 50c. each.

Fig. 359 ASPHALT TAMPERS

Are used for tamping hot asphalt. Can be used as gutter tampers. They are slightly round, with smooth polished face. Cast with pipe handles, so as not to burn off when put in fire; also made with socket and straight grained, 4-foot wood handle.

No. 128.—Pipe handle, weight 30 lbs. .....price, $4 20
129.—Wooden handle, weight 22 lbs. ..... " 3 60

Fig. 360 ASPHALT SMOOTHING IRON

These Smoothers are especially designed for smoothing hot asphalt, and are made of cast iron, with polished face. The handle is of piping and is detachable.

No. 5.—5x10 in., about 35 lbs. .....price, $5 00
5x12 in., about 55 lbs. ..... " 6 00
7x15 in., about 75 lbs. ..... " 7 00

Fig. 361 SPITULAS

Made of best selected oak .....per dozen, $6 00
Made of best selected oak, iron face ..... " 9 00

Fig. 361½ ASPHALT STIRRERS

MADE OF BAR STEEL.

⅞ in. round, 5 ft. long, eye handle .....each, $3 50
1 in. round, 5 ft. long, eye handle ..... " 4 00
1⅛ in. round, 5 ft. long, eye handle ..... " 4 50
1⅛ in. round, 6 ft. long, eye handle ..... " 5 00

Fig. 362 CROW AND DIGGING BAR

No. 121.—1 in. steel, 7 ft. long, 17 lbs. .....each, $3 00
122.—1⅛ in. steel, 8 ft. long, 28 lbs. ..... " 4 25

Fig. 363 PIPE HANDLE DIGGING BAR

No. 123.—Steel points and blades, pipe handle, 5 ft. 6 in. long, weight 11 lbs. ..... each, $3 00

Fig. 364 RAIL TAMPING BAR

Weight 10 to 12 lbs. ..... 20c. lb.

Fig. 365 STEEL TAMPING AND DIGGING BAR

No. 124.—1 in., 7 ft. long, 19 lbs. ..... each, $3 50
125.—1⅛ in., 8 ft. long, 30 lbs. ..... " 4 50

Fig. 366 WOOD HANDLE TAMPING BAR

No. 126.—Hardwood Handle, Iron Shoe, 7 ft. long ..... each, $2 75

Fig. 367 CURB-STONE LIFTS

No. 127.—Curb-stone Lifts, heavy hickory, bound with thick steel band,
6 ft. ..... each, $5 00
7 ft. ..... " 8 50

Fig. 368 BRICK HAMMERS

No. 40.—Philadelphia pattern, 2 lbs., hickory handle ..... each, $2 00

Fig. 369 SCUTCH OR DOUBLE EDGE BRICK HAMMERS

No. 41.—Forged cast steel, hickory handles, 2 lbs. ..... each, $2 00

STREET PAVERS' HAMMERS

Fig. 370
Cobble Hammer

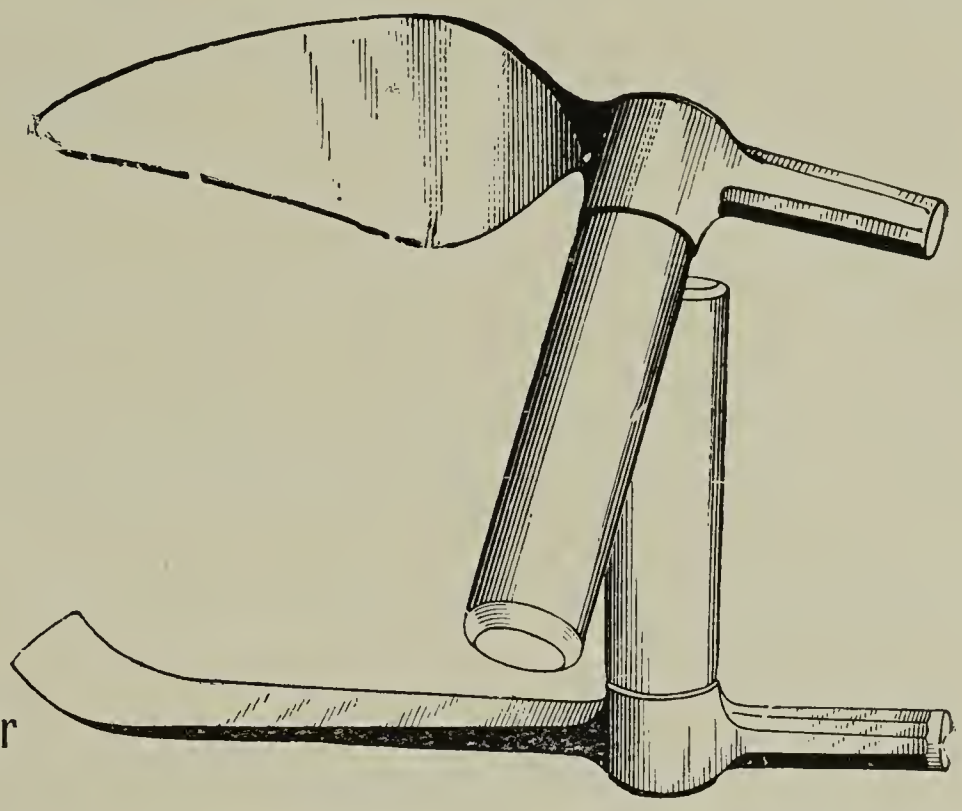


Fig. 371
Belgian Block Hammer

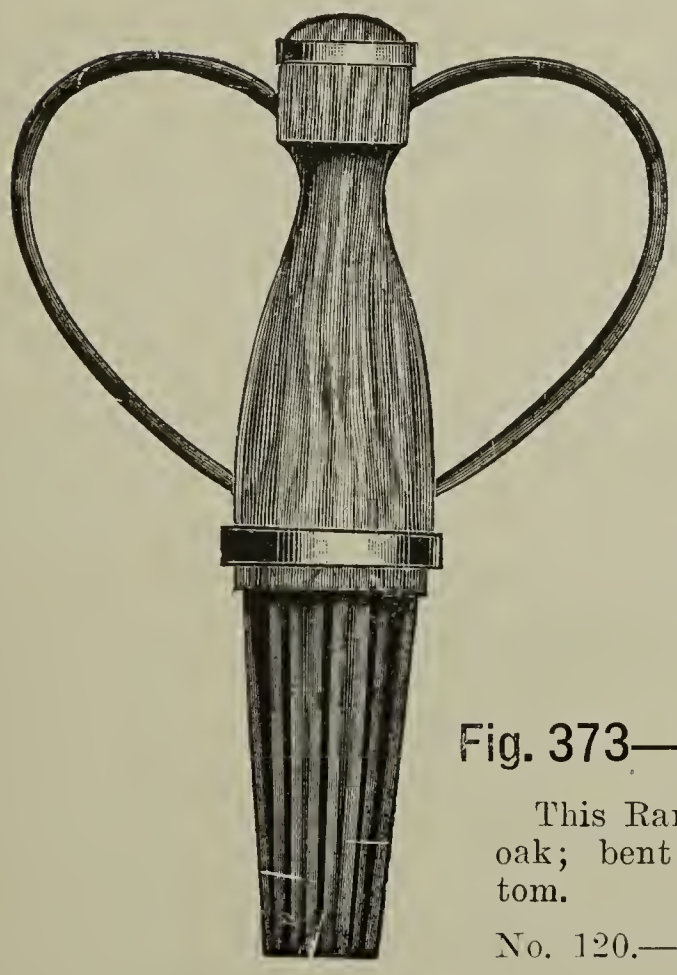
No. 117.—Cobble Hammers .....each, $5 00
118.—Belgian Block Hammers ..... " 5 00

BELGIAN BLOCK AND COBBLE STONE RAMMERS

Fig. 372—Philadelphia Pattern

Made of first quality, well-seasoned, gum wood, and strong hickory handles.

No. 119.—Weight 54 lbs. .....each, $10 00



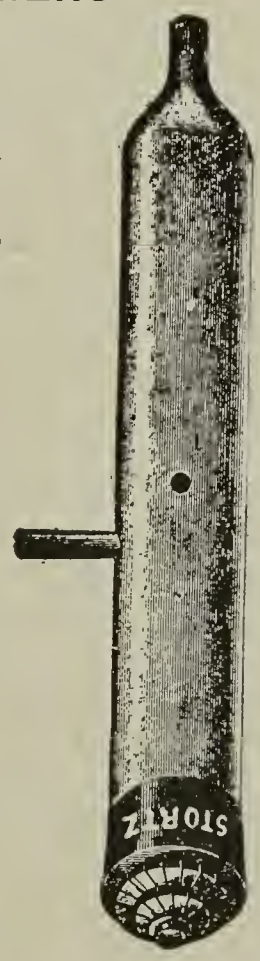


Fig. 373—New York Pattern

This Rammer is made of well-seasoned oak; bent oak handles, with steel bottom.

No. 120.—Weight 40 lbs....each, $12 50

Fig. 374

SHOVELS

No. 147.—Stortz & Son's Special Railroad Shovel, No. 2 size, D handle, square points, crucible steel and socket straps .....per dozen, $19 00

Johnson's D handle, square point, No. 2 size, black or polished ..... " 15 00

Fig. 375

No. 148.—Johnson's D handle round pointed Shovels, No. 2 size, black or polished .....per dozen, $15 00

Fig. 376

No. 149.—Johnson's long handle, round pointed Shovels, No. 2 size, polished .....per dozen, $15 00

Johnson's long handle, square pointed Shovels, No. 2 size, polished ..... " 15 00

Fig. 377

CONCRETE SHOVELS

No. 150.—Stortz & Son's Concrete Shovels; extra heavy blades for shoveling crushed stone and concrete; has perfectly flat blade .....per dozen, $19 00

Acme Concrete Shovels ..... " 15 00

Fig. 378 CLAY PICKS

For general use. With steel points, forged and oil finish. Without handles.

No. 143.—Weight, 5 to 6 lbs. .....per dozen, $12 50

Fig. 379 CONCRETE PICK

For extra severe service. All steel Pick, or of best refined iron with steel points if desired. Oil finish. Without handles.

No. 144.—Weight, 7 lbs. .....per dozen, $18 00

SELECTED No. 1 PICK HANDLES

Per dozen $5 00

ASPHALT MATTOCKS

Made of best refined iron, with tool steel cutters. Oil finish. Without handles.

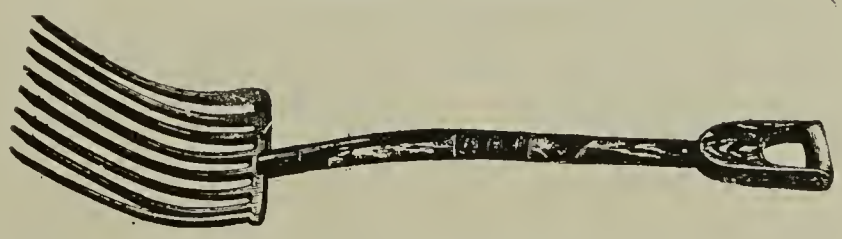
No. 145.—Average weight, 9 to 10 lbs. .....per dozen, $25 00

Fig. 380 ASPHALT MATTOCKS—Improved Philadelphia Pattern

With heavy extra tool steel cutters. Without exception the best Mattock for asphalt work. Oil finished. Without handles.

No. 146.—Average weight, 12 lbs. .....per dozen, $30 00

Fig. 381 STONE FORKS

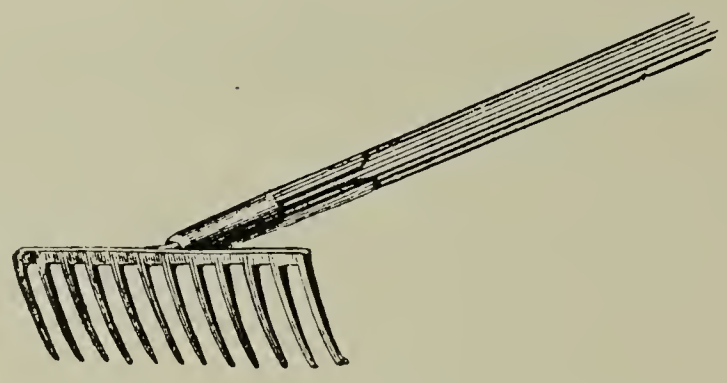


This Fork is for handling cobble and broken stone. A very handy tool for making concrete. Made with a solid steel shank, double capped ferrule. Black oil finish.

No. 46.—8 square tines, 15 in., D handle .....per dozen, $25 00

Fig. 382

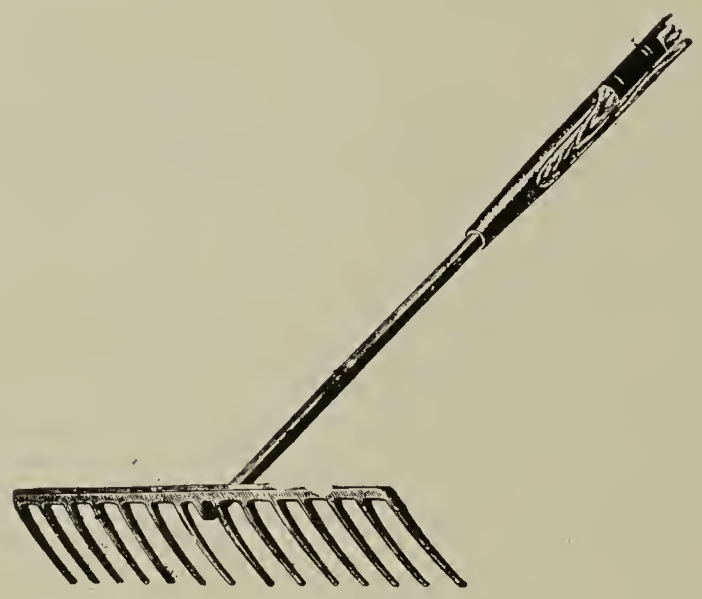
CONCRETE RAKES



This extra heavy steel stone Rake is an excellent tool for mixing and leveling cement.

No. 69.—14 teeth .....per dozen, $25 00

Fig. 383

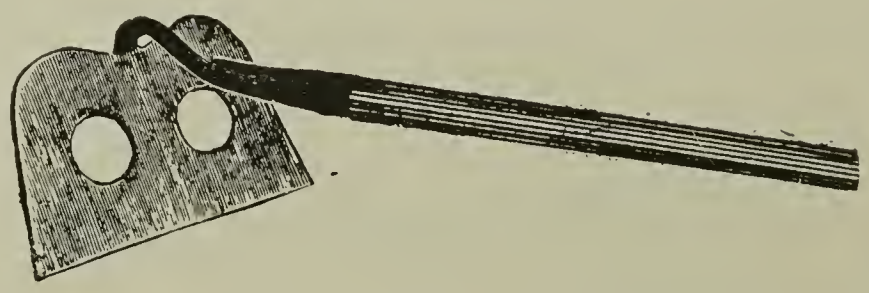


In this patented Rake the head and shank are forged out of one solid piece of steel, thus making its life much longer, as it will not become detached. The head being raised from the shank, will allow the head to be used for leveling cement, etc.

No. 70.—Teeth 4½ in. long, ½ in. square shank, 18 in. long,
4½ ft. ash handle .....per dozen, $32 00

Fig. 384

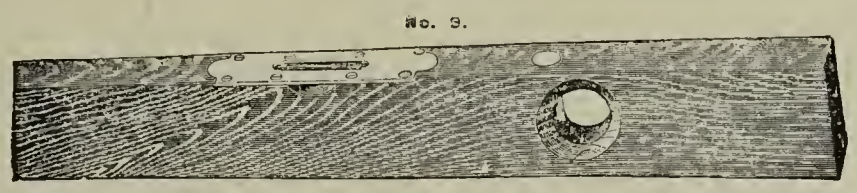
CEMENT HOE



This Cement or Mortar Hoe is made of extra quality steel, carefully forged and tempered, having two holes in the blade; this feature, the contractors will readily see, greatly facilitates the work of mixing cement or mortar.

No 133.—Solid shank, 10 in. blade, 6 ft. handle .....per dozen, $24 00

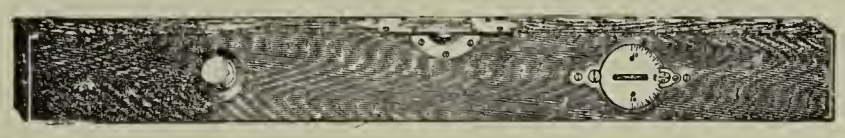
Fig. 387 LEVEL



This Level and Plumb is an indispensable tool to a paver. Plain, not adjustable, no metal binding on ends.

No. 136.—24 in. .....price, $1 20
137.—30 in. ..... " 1 30

Fig. 388 GRADUATING LEVEL



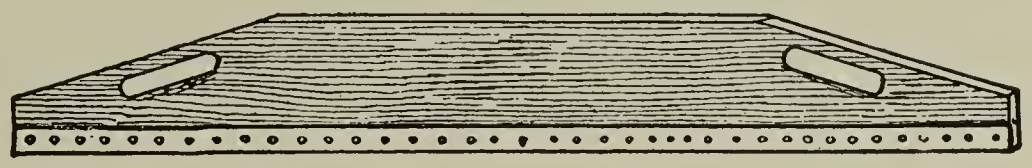
This tool also has a patent adjustable plumb and level, arched top plate, two tipped side views, brass bound ends, and polished.

This tool is invaluable to pavers. The graduating level on the side can be set to any degree or angle required by the pavement, which does away entirely with measuring the drop or slope. Pavers will readily see the advantages and accuracy of this tool and the amount of time saved by its use.

The degree at which any pavement is laid can be readily determined by simply placing the Level on and adjusting it to the pavement.

No. 94.—24 in. long .....price, $1 80

Fig. 389 PAVERS' STRAIGHT EDGE



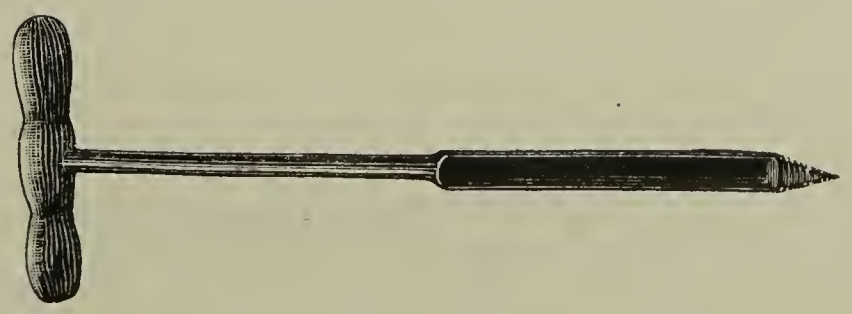
Made of best selected pine, 1⅛ in. thick.

The following regular sizes in stock.

No. 88.— 6 ft. long, 6 in. wide, steel binding on edge .....price, $3 00
89.— 6 ft. long, 6 in. wide, not bound on edge ..... " 2 20
90.— 8 ft. long, 7 in. wide, steel binding on edge ..... " 4 00
91.— 8 ft. long, 7 in. wide, not bound on edge ..... " 3 00
92.—10 ft. long, 8 in. wide, steel binding on edge ..... " 5 00
93.—10 ft. long, 8 in. wide, not bound on edge ..... " 4 00

Longer or special designs of Straight Edges can be furnished on order.

Fig. 391 CEMENT AUGER



Used for cement testing. Forged from best quality cast steel, carefully hardened and tempered.

No. 151.—24 in. over all, spoon 1⅛x10 in. .....price, $12 00

Fig. 392 BRICK OR WALL CHISELS

These Chisels are made for cutting through concrete, stone or brick walls. They are made of high grade tool steel, carefully tempered. Furnished in any size. The following are standard sizes:

No. 159.—Size,	½x11	⅝x12	⅝x14	⅝x16	¾x16	⅝x18	¾x18	¾x24
Price each,	$0 25	30	35	40	45	45	50	60

Fig. 393 STAR DRILLS

These Drills are made of high grade tool steel. Special sizes made to order. The following are stock sizes:

No. 160.—Size of hole,	⅜	½	⅝	¾	⅞	1	1⅛	1¼	1½
Length,	8	8	8	10	12	14	16	18	20
Price each,	$0 20	25	30	40	55	70	85	1 00	1 25

Fig. 394 HOLLOW DRILLS

These Drills are made of high grade tool steel, are wider at cutting edge to give clearance, the dust passing through the drill. They are carefully hardened and tempered.

No. 161.—Size of hole,	½	⅝	¾	1	1¼
Length,	12	12	14	16	18
Price each,	$0 75	85	1 15	1 30	1 50

Fig. 395 DIAMOND POINT OR ROCK DRILLS

For drilling rock, cement, concrete, etc. Special sizes made to order. The following are standard sizes.

No. 162.—Size of hole,	⅜	½	⅝	¾	⅞	1	1¼	1½
Length,	8	8	8	10	12	14	16	18
Price each,	$0 18	20	25	30	40	50	75	1 00

Fig. 396 STONE CHISEL—STONE POINTS, ETC.

Plain heads, forged from high grade tool steel, carefully tempered.

No. 163.—Steel,	⅝x9	¾x9	⅞x9	1x10
Price per lb.,	$0 20	18	17	16

Cement Sidewalk Construction

In some cases walks are laid with satisfactory results with nothing whatever between the walk and the natural soil. In these cases it is where the soil is naturally sandy. But we would advise the use of at least one inch of sand in all cases.

It is necessary, to insure a good cement pavement, that the foundation be properly laid. If broken stone or cinders be used, the pieces should not be less than one inch, or more than three inches in size; if gravel, coal ash, or sand, it should be good clean material.

If there is much clay, there should be drainage outlets provided to allow the water to run out from under the work and prevent cracking. If water accumulates under the walk and freezes, the expansion will cause the mass to heave up.

Where there is not a natural drainage, or where the ground is not sandy, one should excavate to the depth of twelve to fourteen inches.

The excavation should be somewhat larger than the walk, in order to allow space for a framework of two-inch planks on edge for guides, and set even with the top of the sidewalk when finished.

Eight to ten inches of the excavation should be filled in with the broken stone, cinders, coarse gravel or sand. This should be put in in layers of about two inches, wet, and tamped solid by the use of our tampers (Figs. 352 to 359) to avoid settting.

A three to four-inch coat of concrete, composed of one part of best Portland cement, two parts of bar sand or gravel free from loam, four parts of stone or furnace slag (same to pass through a one-inch ring), thoroughly mixed dry. Then add enough water to allow moisture to arise to the surface after hard tamping with either of the tampers (Figs. 352 to 359) most suitable.

Be careful to cut the concrete, after tamping, clean through on the required lines with the concrete cutter (Figs. 321 or 322) into separate flags or sections, so as to allow for contraction and expansion, and thereby guard against cracking.

The space made by the concrete cutter should be filled with dry sand and tamped.

The wearing or surface coat consists of one part of best Portland cement, one part of crushed granite or slag grit, to be thoroughly mixed dry; then add enough water and thoroughly mix it to a stiff mortar. This should be placed on the concrete before it has had time to dry or become set. Spread this about one inch thick, conforming with the required grade, and after troweling sufficient to work the air out with the smoothing trowels (Figs. 347 to 349), the surface is levelled with the floats (Figs. 351½ and 351 A).

A dryer, or top dressing, of equal parts of seashore or flint sand and best Portland cement, thoroughly mixed, should be spread over the surface.

The top dressing and wearing coat is now cut into blocks or flags with a top knife (Fig. 323), being careful to have the cuts conform with the cuts in the concrete. The cuts or joints between the flags are finished with the jointers (Figs. 323¾ to 331) according to the width of the joint desired. A curb tool (Fig. 340) of the desired radius should be used to round off all outside edges of the work. Should a bevel edge be wanted, use the bevel tool (Fig. 338½).

To give the pavement a neat finish, and to also slightly roughen the surface and prevent slipping, giving a dotted appearance, roller (Fig. 317 or 317½) should be used. Should a tool-finished or bush-hammered effect be desired, the roller (Fig. 318) should be used. The ribbon roller (Fig. 319), and likewise the star roller add greatly to the appearance of the walk when finished. In order to get the best possible results, it is necessary to have the surface of the rollers kept perfectly clean. Using a rag saturated in kerosene oil from time to time will prevent small particles of cement on top dressing adhering to the roller.

Should it be desirable, a handle of any length can be used on the rollers by means of the extension handle (Fig. 320).

After the pavement has been tooled with the roller, the name plate (Fig. 344¾) or the letters (Fig. 345¾) are set in place; or the name stamp (Figs. 345 to 345½) or the alphabet (Fig. 346) are pressed into the work as a lasting advertisement.

For driveways, stablework, etc., it is advisable to make the joints, or grooves of sufficient width, closeness, and depth to give a secure footing to horses, etc. For this purpose the driveway roller (Fig. 319¼) and the groovers (Figs. 332 to 336) have been designed. Should a corrugated surface be desired, the beading tool (Fig. 344½) will be found very useful. Where there is a large surface to be done, the impression frame (Fig. 320½) is the tool, as twelve heavy impressions are made at one time.

For curbs of whatsoever kind the Curb Tool (Fig. 340), selected according to the radius desired, or Fig. 343 A or Fig. 343 B.

For circles or corners of curbs, where the curb tool will not answer, the Radius Tool (Fig. 337) is required. For curbs or copings around steps, etc., the Residence Curb Tool (Fig. 341) is used.

For copings around lawns, the finishing of the top of walls, etc., the Coping Tool (Fig. 342).

For finishing the edges of steps or where square edges are needed, Step Edger (Fig. 339) or the Angle Trowels (Figs. 349½ to 350¾), according to the shape of the angle required. To finish the nosing of the tread of steps use tool (Fig. 344 A or 344 B).

Should the walk require a gutter to carry off the water, we recommend the use of the Gutter Tool (Fig. 343), as by its use a uniform and beautiful gutter will be produced with little labor.

Foundation

Broken stone, cinders, coarse gravel or sand.

Concrete

1 part of best Portland Cement.
2 parts of bar sand or gravel free from loam.
4 parts of stone or furnace slag, same to pass through a 1-inch ring.

The cement and sand or gravel in the specified proportions should be thoroughly mixed dry until no streaks of cement are visible, and again thoroughly mixed after adding the water.

Wearing or Surface Coat

1 part of best Portland Cement.
1 part of crushed granite or slag grit.

Dryer or Top Dressing

1 part of best Portland Cement.
1 part of seashore or flint sand.

When a Special Color is Desired

The following rule is recommended:
Black—Use 2 per cent. Excelsior Carbon Black.
Red—Use 10 per cent. best Raw Iron Oxide.
Brown—Use 6 per cent. best Roasted Iron Oxide.
Buff—Use 10 per cent. best Ochre.
Blue—Use 6 per cent. best Ultramarine.
White (as near as possible)—Use light shade cement and marble dust or white sand.

The strength of work is not affected by coloring, if best Metallic Oxides, free from sulphur, are used.

Never use Venetian Red or Lamp Black, as they run and fade.

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